

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



STID 4236

November 25, 1996

Mr. Sam Cohen
Friedkin-Becker
300 Grand Avenue
Oakland, CA 94610

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

RE: PARKSIDE COMMONS APARTMENTS, 900 143RD AVE., SAN LEANDRO, CA

Dear Mr. Cohen:

This letter confirms the completion of site investigation and remedial action for the one 10,000-gallon bunker oil, one 2,840-gallon waste oil, and the three (one 4,000-gallon, one 550-gallon and one 500-gallon) gasoline underground storage tanks (USTs) at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to the regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations. **If a change in land use is proposed, the owner must promptly notify this agency.**

Please contact Dale Klettke at (510) 567-6880 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director, Department of Environmental Health

enclosure

c: Thomas Peacock, LOP Manager--files
Lori Casias, SWRCB, w/enclosure
Mike Bakaldin, San Leandro Hazardous Materials Program, w/enclosure
Brad Wright, McLaren/Hart, 1135 Atlantic Avenue, Alameda, CA 94501
Daniel Hernandez, c/o First Nationwide Bank, 33 Montgomery, 7th Floor, SF 94105
San Leandro Advisors, 300 Grand Avenue, Oakland, CA 94610

01-1140

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: July 22, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: D. Klettke Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Parkside Commons Apartments
Site facility address: 900 143rd Avenue, San Leandro, CA 94578
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4236
URF filing date: 12/15/92 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

San Leandro Advisors, A California Limited Partnership, 300 Grand Avenue,
Oakland, CA 94610

Daniel Hernandez c/o First Nationwide Bank, 33 Montgomery, 7th Floor
San Francisco, CA 94105 (415)904-4793

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	10,000	bunker oil	removed	10/18/85
2	2,840	waste oil	removed	10/26/85
3	4,000	gasoline	removed	6/19/85
4	550	gasoline	removed	6/19/85
5	500	gasoline	removed	10/18/95

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
Site characterization complete? YES
Date approved by oversight agency: 12/30/92
Monitoring Wells installed? YES Number: eight (8)
Proper screened interval? YES, all wells screened from 15' to 25' bgs
except MW-5A (20' to 25' bgs)
Highest GW depth below ground surface: 11.50' on 4/30/93 (MW-7A)
Lowest depth: 19.55' on 8/19/91 (MW-1A)
Flow direction: predominantly west to southwest
Most sensitive current use: residential
Are drinking water wells affected? UNK Aquifer name: San Leandro Cone
Is surface water affected? NO Nearest affected SW name: N/A
Off-site beneficial use impacts (addresses/locations): undetermined
Report(s) on file? YES Where is report(s) filed? Alameda County

1131 Harbor Bay Pkwy
Alameda, CA 94502

95 SEP 11 11 35 AM '96
ENVIRONMENTAL PROTECTION

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tanks	1 4000-gallon; 1 550-gallon; 1 10,000-gallon and 1 500-gallon; 1 2840-gallon;		6/19/85 10/18/85 10/26/85
Piping			
Soil	unknown		
Groundwater			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before¹</u>	<u>After²</u>	<u>Before³</u>	<u>After⁴</u>
TPH (Gas)	20,000	210	1700	220
TPH (Diesel)	NA	700	<320	<50
Benzene	NA	0.65	3.33	<0.3
Toluene	NA	0.84	4.17	<0.3
Ethyl benzene	NA	3.1	300	4.8
Xylenes	NA	15	99.7	<0.3
Oil & Grease	5300			
Heavy metals ⁵				
Pesticides ⁶				

NA - Not analyzed. Original soil samples collected during UST closures in 1985 were apparently not analyzed for BTEX fractions.

¹"Before" TPHg concentration represents the interface sample at a depth of 7' bg, collected on 10/18/85, from beneath the 150-gallon gasoline tank. O & G concentration represents the soil sample at a depth of 20' below grade (bg), collected on 10/26/85, from the west end of the 2840-gallon waste oil UST excavation.

²"After" TPHg, ethyl benzene and xylene concentrations represents sample location 5-6 at a depth of 17.5' bg. Benzene concentrations represent sample location 5-2 at a depth of 22' bg. Toluene concentrations represents sample location 4-3 at a depth of 22' bg (Area 5 - See Figures 6 & 7). "After" TPHd concentration represents sample location 3-3 at a depth of 16' bg, collected approximately 10 feet south of the presumed former Bunker C UST location (Area 3 - See Figures 4 & 5).

³"Before" groundwater concentrations were detected in monitoring well MW-1A for the 6/21/91 groundwater sampling event (See Table 1).

⁴"After" groundwater concentrations were detected in monitoring well MW-1A for the 4/5/96 groundwater sampling event (See Table 2).

⁵Apparent geogenic concentrations of the metals arsenic, cadmium, chromium, mercury, nickel and zinc were detected at maximum concentrations of 5.5 ppm, 2 ppm, 50 ppm, 0.08 ppm, 52 ppm, and 77 ppm, respectively. Lead was detected at a maximum concentration of 140 ppm.

⁶Maximum concentrations of the pesticides DDD, DDE, DDT, chlordane and dieldrin were detected in soils at 6.8 ppm, 0.54 ppm, 3.1 ppm, 0.64 ppm and 5.8 ppm, respectively. Additional pesticides detected in soils include lindane, endrin, heptachlor, methoxychlor, and endosulfan sulfate. No pesticides were detected in groundwater samples collected from wells MW-1A through MW-5A on 6/21/91, and from wells MW-1A, MW-4A, MW-7A and MW-81 on 3/26/96. Dieldrin was detected at a concentration of 0.17 ppb in the groundwater sample collected from MW-2A on 3/26/96.

Comments (Depth of Remediation, etc.):

The Parkside Commons Apartments were constructed in 1985 and 1986. For an estimated 35 to 45 years ending in 1985, a plant nursery was operated at the site. According to Alameda County Agricultural Commissioner's Office, the only pesticide definitely known to be used was Temik* (aldicarb). However, the inspector questioned (Gregory Gee) suggested that in its earlier years the nursery may have used organochlorine pesticides, including DDT, chlordane, lindane and heptachlor.

This site previously had four (4) septic tank systems and five (5) underground storage tanks (USTs) of which previous held gasoline, bunker fuel and waste oil (See Figure 2A).

This closure summary covers the investigations related to the petroleum hydrocarbon releases associated with the former gasoline, bunker oil and waste oil USTs. Health risks associated with soil pesticide residues were reviewed and evaluated by Dr. Ravi Arulanantham of this office. A copy of Dr. Arulanantham's letter is enclosed.

On 6/19/85 Blaine Tech Services removed one (1) 550-gallon and one (1) 4000-gallon gasoline USTs (See Figure 2B). Soil sample #1, collected at 14 feet bg near the fill end of the 4000-gallon UST, revealed 600 ppm-total volatile hydrocarbons as gasoline (TVHg). Soil sample #2, collected at 11 feet bg near the fill end of the 550-gallon UST, revealed 3100 ppm-TVHg. Analysis for BTEX was not performed.

On 10/18/85 Blaine Tech Services removed one (1) 150-gallon gasoline and one 10,000-gallon bunker oil underground storage tanks (USTs), and on 10/26/85 removed one 2840-gallon waste oil UST (See Figure 2C). A soil sample collected from the 150-gallon gasoline UST, at an approximate depth of 7' bgs, exhibited TPHg at a concentration of 20,000 ppm. Over-excavation to 12' bgs removed contaminated soil and a soil sample collected from 12' bgs did not contain TPHg. Again, analysis for BTEX was not performed. However, vapor analyses of soil collected at a depth of 12' bgs from the 150-gallon gasoline UST excavation showed PID readings of up to 1500 ppm on a volumetric basis.

One soil sample was collected at a depth of 13' bgs from the bunker oil tank excavation. This sample was found to contain non-detectable concentrations of bunker oil constituents. However, vapor analyses of soils collected at depths of between 12' and 13' bgs from the bunker oil excavation showed PID readings of up to 175 ppm on a volumetric basis.

Two (2) soil samples collected from the west end of the 2840-gallon waste oil tank excavation identified up to 2,500 ppm and 5,300 ppm of waste oil constituents, at depths of 13' and 20' bgs, respectively (See Figure 2D). One soil sample collected at a depth of 12' bgs from the east end of the excavation was analyzed and found to contain non-detectable concentrations of waste oil constituents.

See Section VII, Additional Comments, etc...

IV, CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**
Does corrective action protect public health for current land use? **YES**
Site management requirements: **None**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **NO**
Number Decommissioned: **N/A** Number Retained: **eight (8), pending closure**
List enforcement actions taken: **None**
List enforcement actions rescinded: **N/A**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Dale Klettke** Title: **Hazardous Materials Specialist**

Signature: *Dale Klettke* Date: *8/30/96*

Reviewed by

Name: **Eva Chu** Title: **Hazardous Materials Specialist**

Signature: *Eva Chu* Date: *8/20/96*

Name: **Thomas Peacock** Title: **Supervising HazMat Specialist**

Signature: *Thomas Peacock* Date: *8-13-96*

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: *Approved*

RWQCB Staff Name: **Kevin Graves**

Title: **AWRCE**

Signature: *Kevin Graves*

Date: *9/6/96*

VII. ADDITIONAL COMMENTS, DATA, ETC.

An exhaustive environmental investigation was conducted by Russell Resources, Inc. (RRI) during 1991 to evaluate the potential for residual contamination from the approximately 40 year operation of a plant nursery on this site. The RRI investigation consisted of the sampling and analysis of soil and groundwater samples for residual contamination from VOCs, pesticides, metals and petroleum hydrocarbons. A total of six (6) areas were defined (Areas 1 through 6), with sampling locations being selected near the former underground tanks and septic systems. A property-wide grid of shallow soil sample locations for pesticide analysis was also selected. After collection and analysis of the initial soil samples (March 1991), additional locations were sampled in May and June 1991, to better define the extent of contamination in these areas.

Four (4) groundwater monitoring wells (MW-1A through MW-4A) were installed on June 18 and 19, 1991. A fifth groundwater monitoring well (MW-5A) was installed on July 22, 1991. Initial groundwater sampling analyses are summarized in Table 1.

Two additional groundwater monitoring wells (MW-6A and MW-7A) were installed at the site on October 6, 1992. Initial groundwater sampling of these two wells were found to contain non-detectable concentrations of TPHg, BTEX and lead at detection limits of <50 ppb, <0.5 ppb and <3 ppb, respectively.

One additional groundwater monitoring well (MW-8A) was installed at the site on February 1, 1993. Initial groundwater sampling of well MW-8A detected concentrations of TPHg, TPHd, benzene, toluene, ethyl benzene and total xylenes at concentrations of <50 ppb, 220 ppb, 1 ppb, <1 ppb, <1 ppb and <1 ppb, respectively.

Case closure is warranted for this site as a "Low-Risk Groundwater Case" for the following reasons.

- a) The source has been sufficiently removed or has been remediated.

Laboratory analysis of soil samples collected from the former gasoline UST excavations indicate that the majority of soil containing elevated levels of TPHg were removed. However, TPHg, TPHd and BTEX were detected at maximum concentrations of 210, 700, 0.65, 0.84, 3.1 and 15 ppm, respectively, from soil samples collected from exploratory borings advanced during the Russell Resources 1991 investigation (Area 5).

- b) The site has been adequately characterized.

Laboratory analysis of soil and groundwater samples collected during site investigations document that the previous release is small in extent and gasoline contamination appears to be limited to soils remaining in place in the vicinity of Area 5, as documented by soil samples 5-2, 5-6, 5-10, 4-4 and 4-3. In addition, waste oil and Bunker C contamination appears to be limited to soils remaining in place in the vicinity of Area 3, in close proximity to the Bunker C and waste oil USTs, as documented by samples 3-3, 3-4, and 3-7.

- c) The dissolved hydrocarbon plume appears to be stable and is not migrating.

TPHg and BTEX have consistently been detected in groundwater samples collected from monitoring well MW-1A, located up gradient from the former gasoline USTs located in Area 5. However, since initial groundwater sampling events began in 1991, maximum concentrations of TPHg and BTEX detected in well MW-1A are 12.0, 0.150, 0.0042, 1.5 and 0.84 ppm, respectively. Groundwater samples collected from well MW-1A on 4/5/96 revealed TPHg and BTEX concentrations at 0.220, <0.0003, <0.0003, 0.0048 and <0.0003 mg/L, respectively.

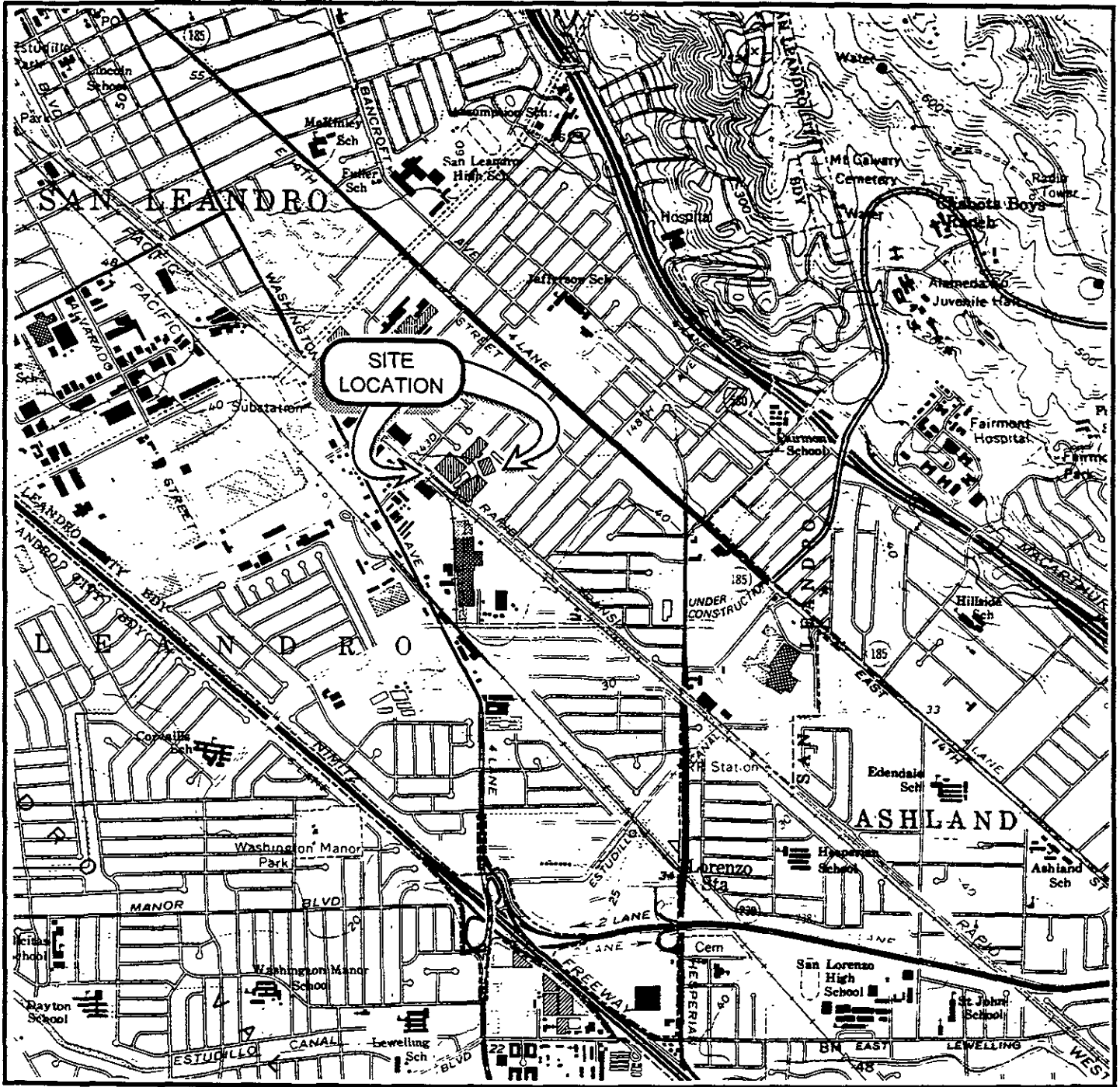
- d) No water wells, deeper drinking water wells, surface water or other sensitive receptors are likely to be impacted.

The petroleum hydrocarbon groundwater contamination appears to be localized in the vicinity of the former gasoline UST excavations (Area 5). The concentrations historically detected in these areas should not impact the quality of groundwater down gradient of the site.

e) The site presents no significant risk to human health or the environment.

Benzene concentrations detected in soil samples collected from exploratory soil borings during the extensive 1991 site investigation, are in exceedance of the ASTM RBCA CA-modified Tier 1 RSBL value (0.160 ppm) for a 1E-04 (1 in 10,000 excess cancer risk) for soil-vapor intrusion from soil to buildings, for a residential receptor scenario. However, all current apartment buildings are built on concrete slabs with the majority of the surface area of the apartment complex being capped (paved parking). In addition, since September 1, 1994, benzene concentrations detected in groundwater samples collected from the five on-site monitoring wells have been at or below the primary drinking water MCLs for benzene of 1 ug/L.

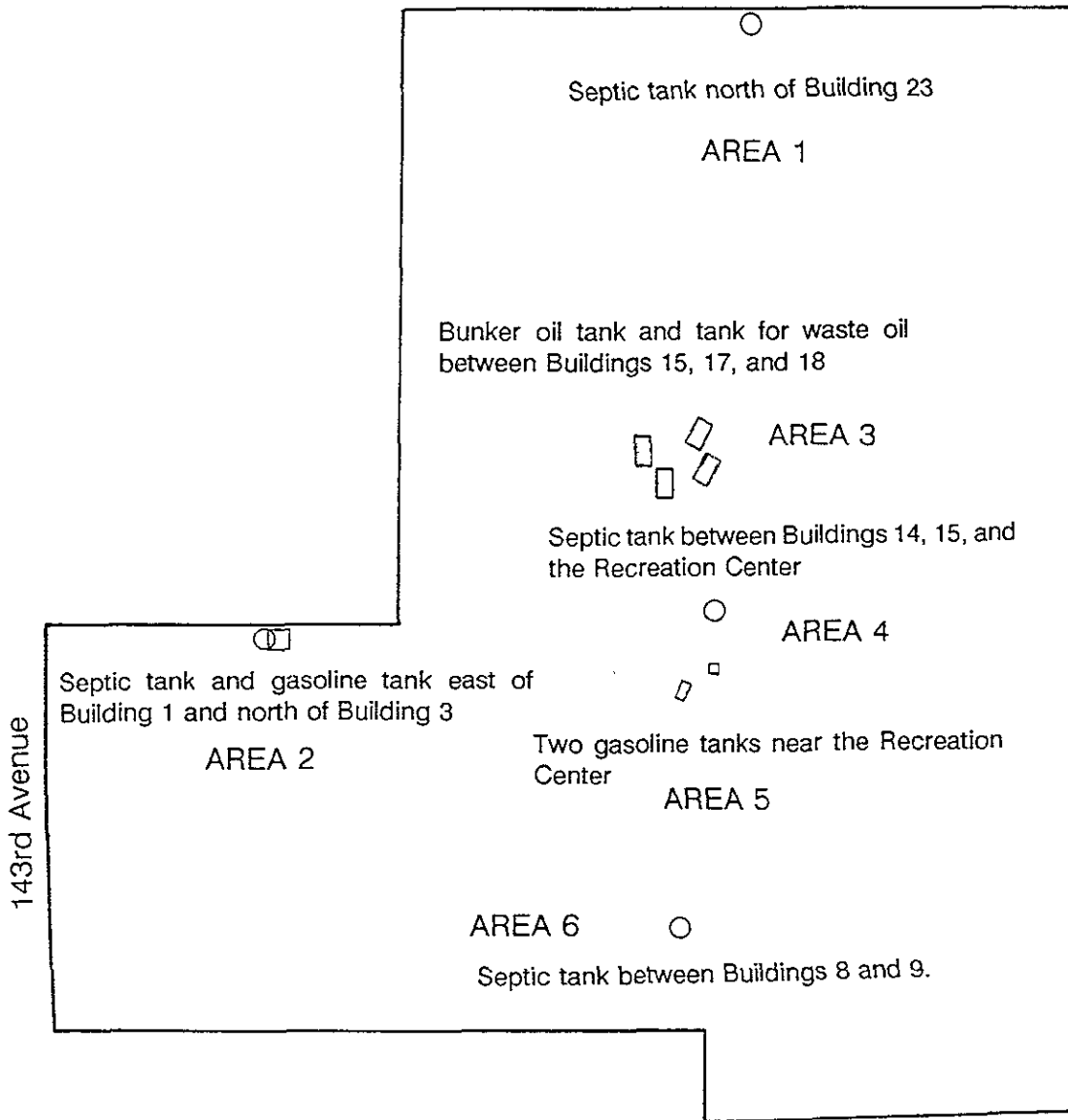
FIGURE 1
 SITE LOCATION
 PARKSIDE COMMONS APARTMENTS
 SAN LEANDRO, CA



MAP SOURCE: U.S.G.S., San Leandro, Calif. and Hayward, Calif., photo revised 1980



0 2000
 SCALE IN FEET



North



Figure Site Areas

2A

550 GALLON
4,000 GALLON
GASOLINE

#1 @ 14' below grade; near fill pipe (F).

IT Stoner Laboratories
lab no. 29515 600 ^{FINAL} PPM

#2 @ 11' below grade; near the fill pipe (F).

lab no. 29516 3,100 ^{FINAL} PPM

SCALE: 1/10" = 6"

Map ref: Thomas Bros.
Alameda Co.
p. 27 D1

Richard C. Blaine

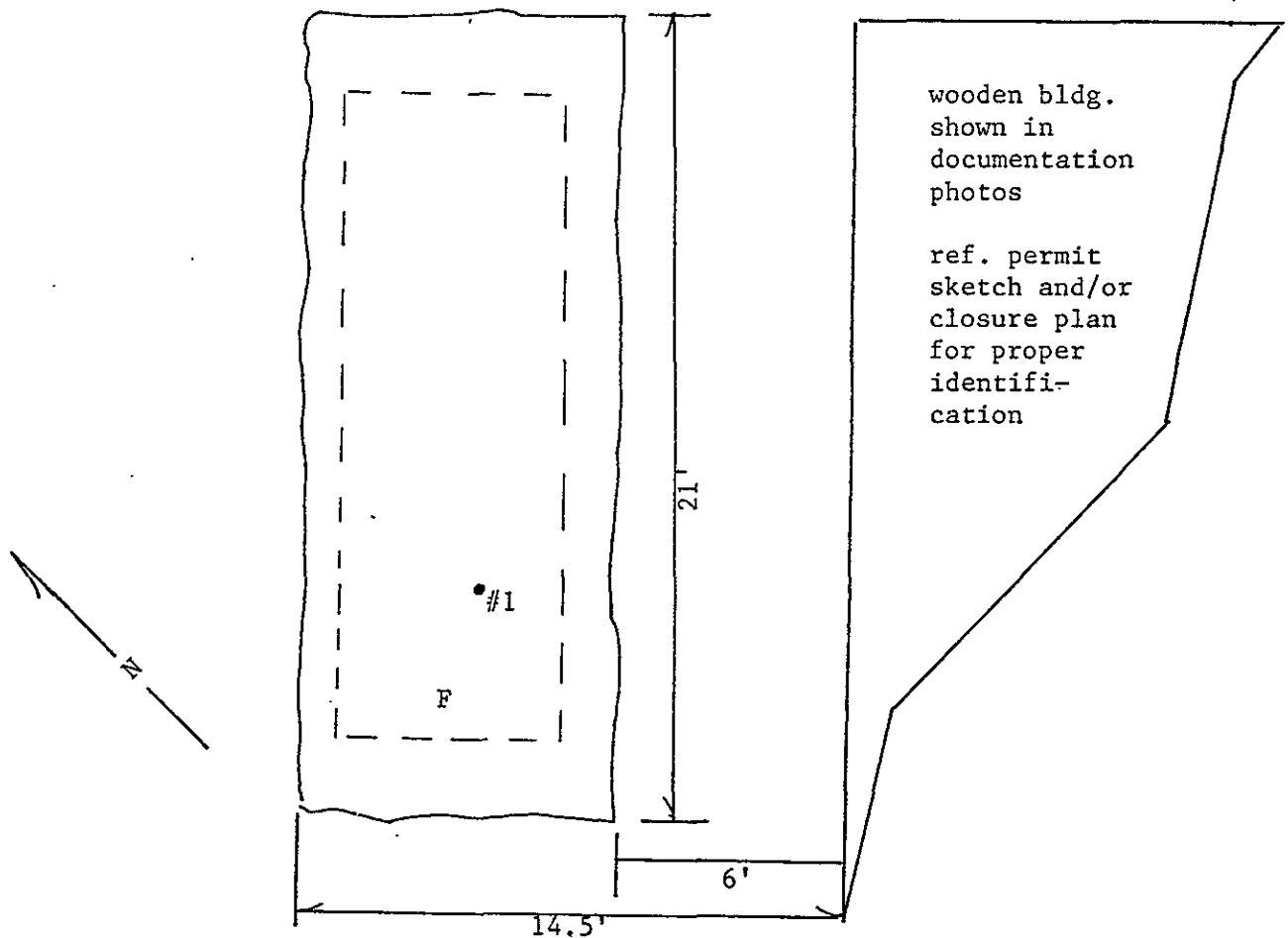
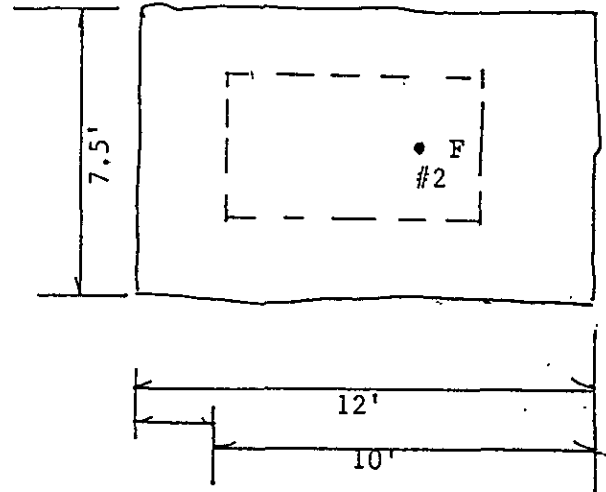


FIGURE 2B

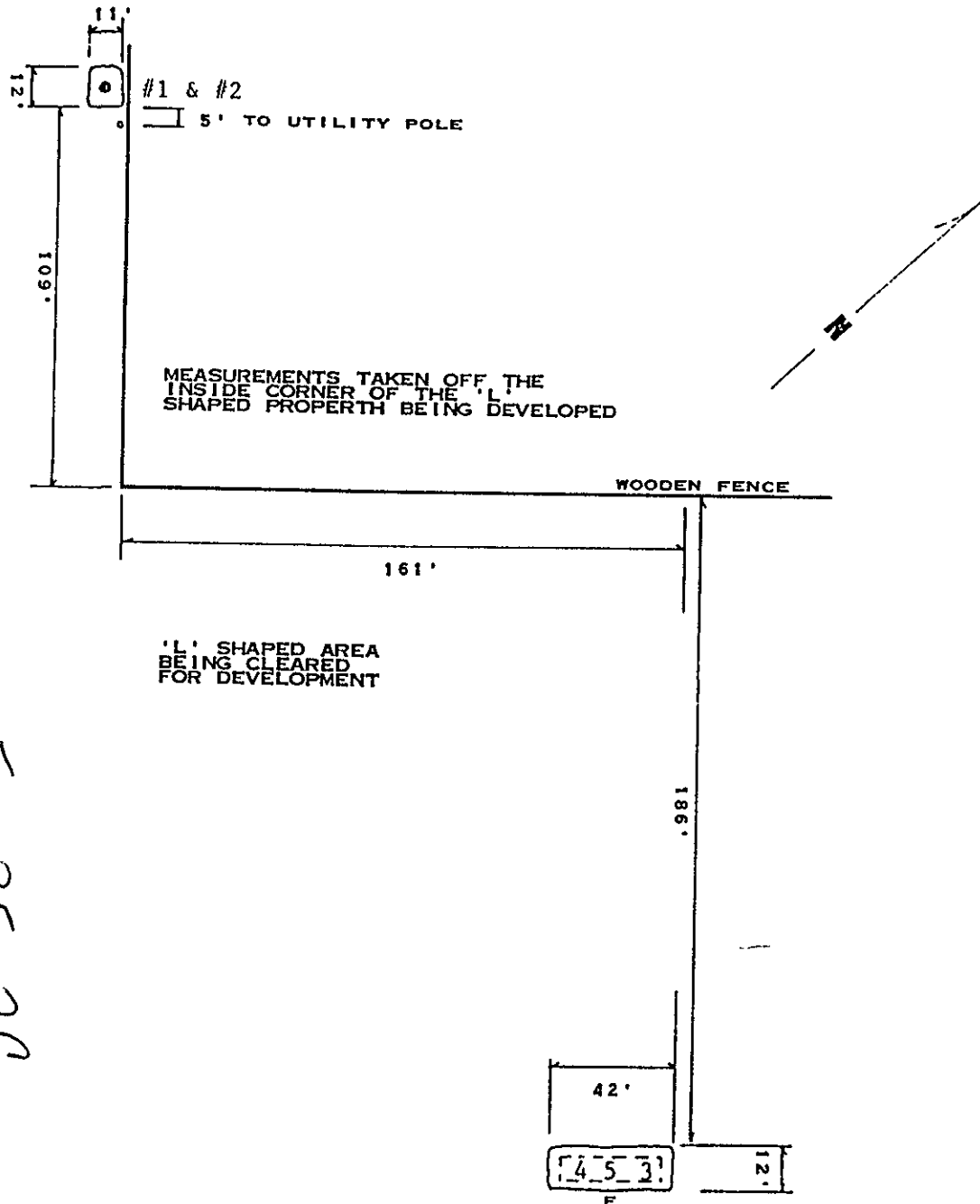


FIGURE 2C

MAP REF: THOMAS BROS.
ALAMEDA COUNTY
P. 27 D-1

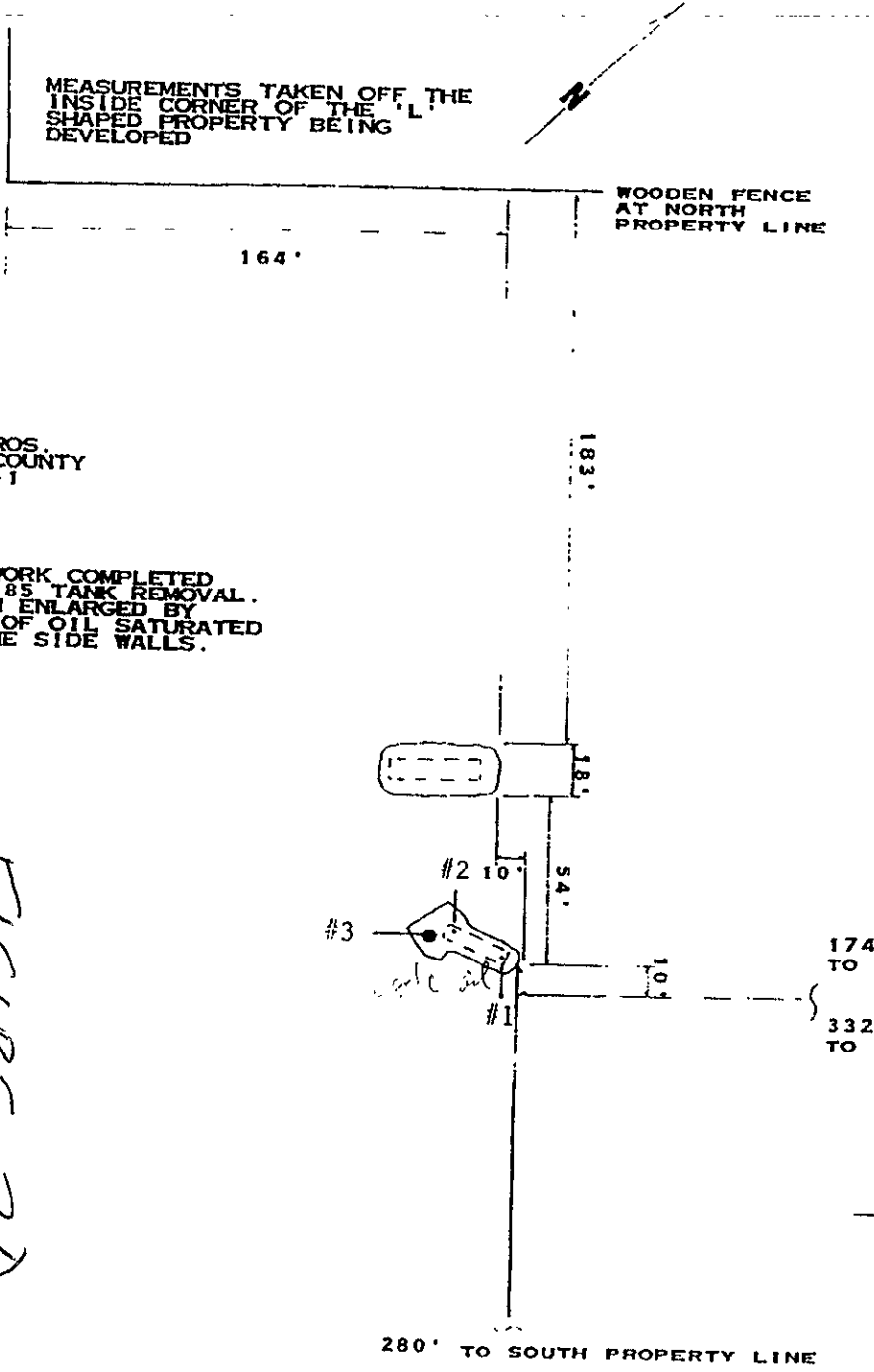
150 GALLON GAS TANK

- #1 INTERFACE SAMPLE
SOIL FROM 7'
100% LEL/+10,000 PPM-VAPOR
ANALYSIS FOR VOLATILE
HYDROCARBONS DUE TO GASOLINE
AT ENVIRONMENTAL RESEARCH
GROUP INC.
ERG LAB NO. 6547-1
20,000 PPM
- #2 SOIL FROM 12' (DEPTH OF
ADDITIONAL EXCAVATION)
1,500 PPM-VAPOR
ANALYSIS FOR GASOLINE
ERG LAB NO. 6547-2
NONE DETECTED

10,000 BUNKER OIL TANK

- #3 INTERFACE SOIL
FROM 12'
40 PPM-V
ANALYSIS FOR BUNKER OIL
PLACED ON 'HOLD' AT LAB
- #4 INTERFACE SOIL
FROM 13'
175 PPM-V
ANALYSIS FOR BUNKER OIL
PLACED ON 'HOLD' AT LAB
- #5 INTERFACE SOIL
FROM 13'
150 PPM-V
ANALYSIS FOR BUNKER OIL
ERG LAB NO. 6542-1
NONE DETECTED

NOTE: THOUGH THE SOIL APPEARED
CLEAN AT THE INTERFACE
DEPTH SOIL ABOVE AND BESIDE
THE TANK WAS NOTICEABLY
STAINED. THE CONTRACTOR
PLANNED FURTHER EXCAVATION
TO REMOVE ALL THIS SOIL.



OLD PLATE AND RIVET 2,840 GALLON OIL TANK KEEL AT 10' BELOW GRADE
 FILL PIPE (F) AT THE WEST END
 SOIL CONTAMINATION SPREADING FROM THE FILL PIPE DOWN TO FIRST WATER AT 20'. ALL OBVIOUSLY CONTAMINATED SOIL WAS REMOVED

ALL SAMPLES ANALYZED FOR WASTE OIL

- #1 INTERFACE SOIL SAMPLE AT 12' END OF TANK
 65 PPM-VAPOR
 ERG LAB NO. 6595-1
 NONE DETECTED
- #2 INTERFACE SOIL FROM 13' AT FILL PIPE
 400 PPM-VAPOR
 ERG LAB NO. 6595-2
 2,500 PPM
- #3 SOIL FROM 20' AT THE LEVEL OF FIRST WATER, FOLLOWING EXCAVATION OF CONTAMINATED SOIL
 180 PPM-VAPOR
 ERG LAB NO. 6595-3
 5,300 PPM

ops Test 10/27/85

MAP REF: THOMAS BROS.
 ALAMEDA COUNTY
 P. 27 D-1

NOTE: ADDITIONAL WORK COMPLETED SINCE 10/18/85 TANK REMOVAL. PIT HAD BEEN ENLARGED BY THE REMOVAL OF OIL SATURATED SOIL FROM THE SIDE WALLS.

FIGURE 2D

RICHARD C. BLAINE

R 408 293 8773

BLAINE TECH

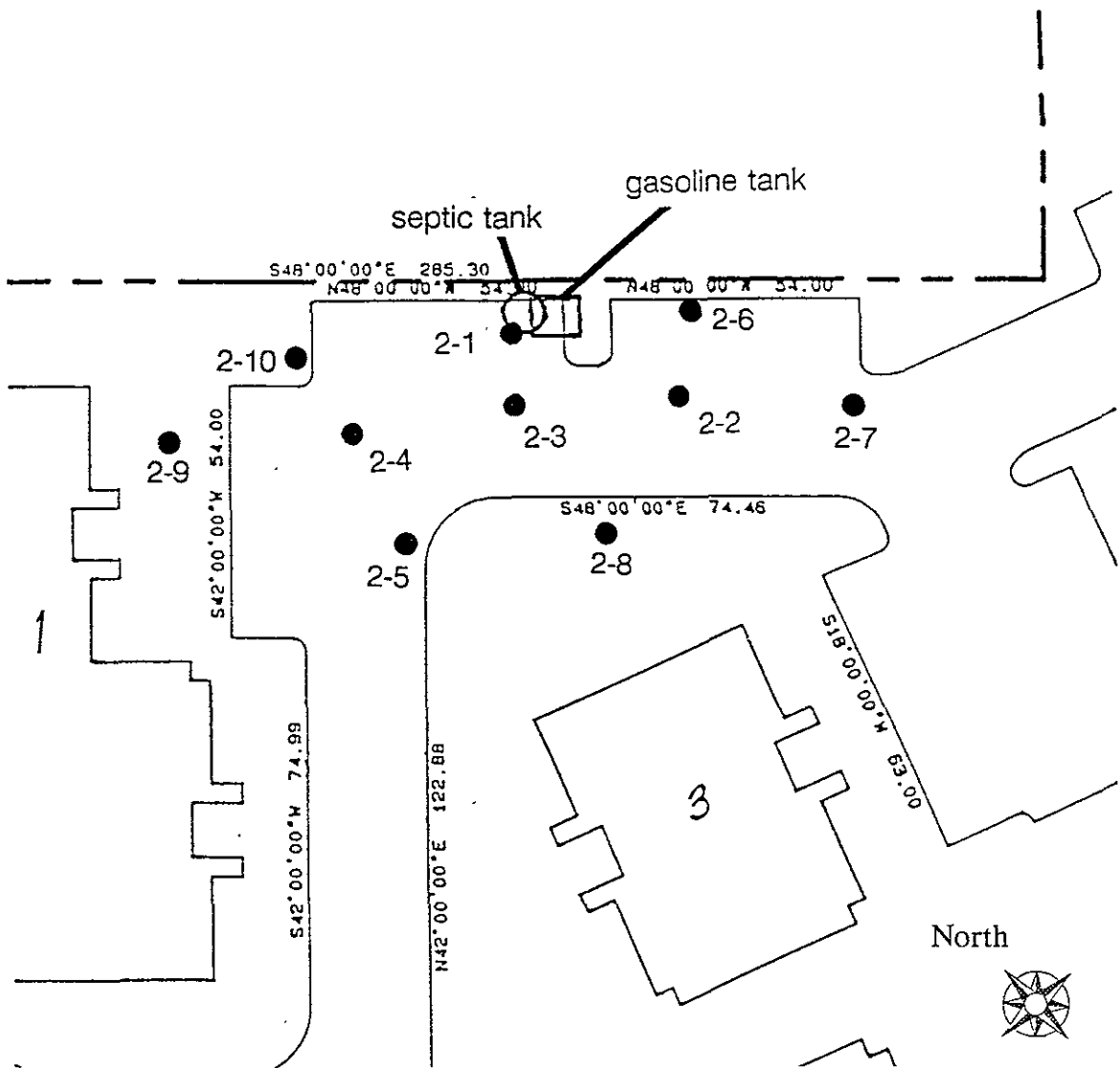


Figure 3 Area 2 -- West Septic Tank and Gasoline Tank -- Sample Locations

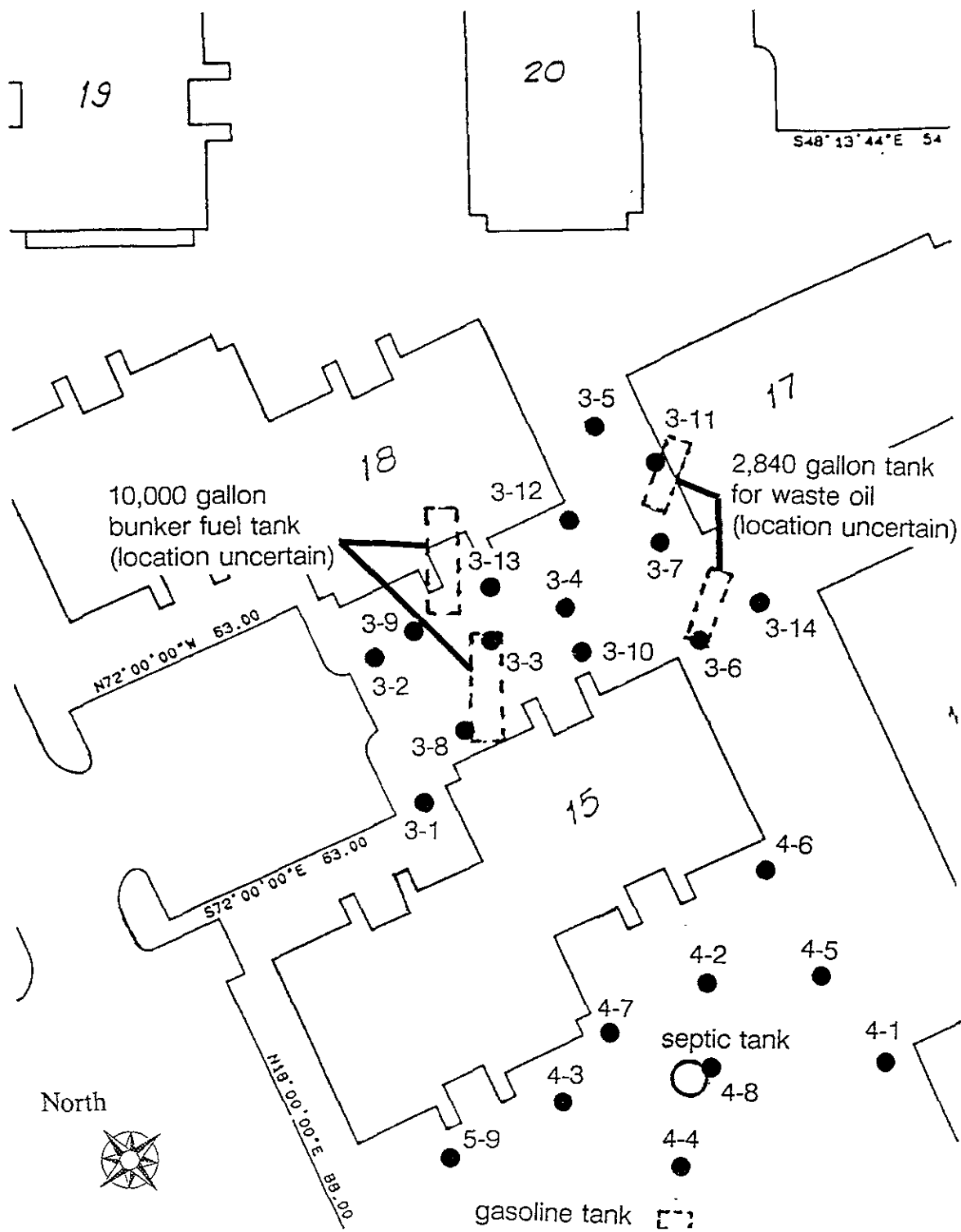


Figure 4 Area 3 -- Bunker Tank and Tank for Waste Oil -- Sample Locations

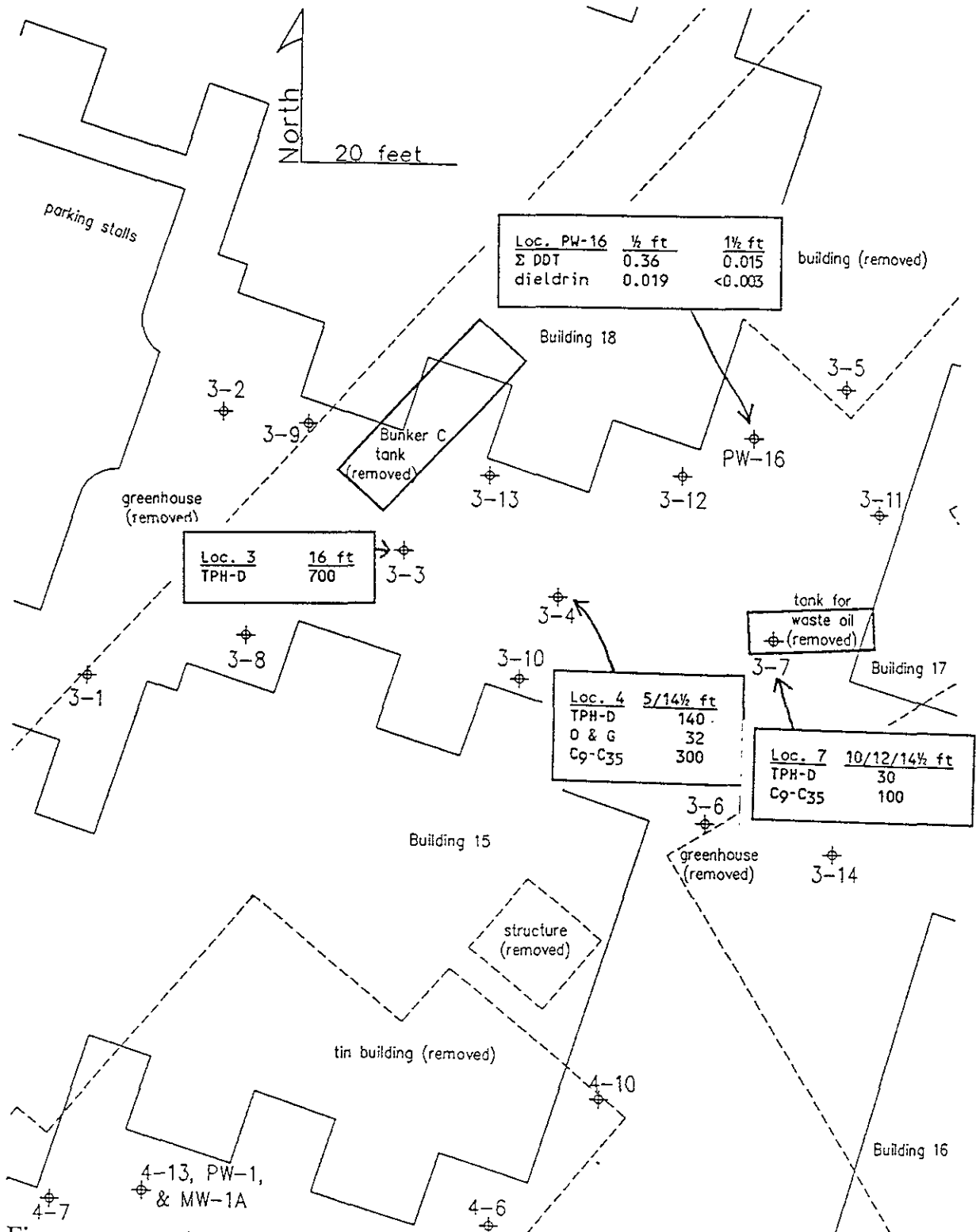


Figure 5

Area 3 -- Bunker Oil Tank and Tank for Waste Oil -- Positive Analytical Results from Soil Samples

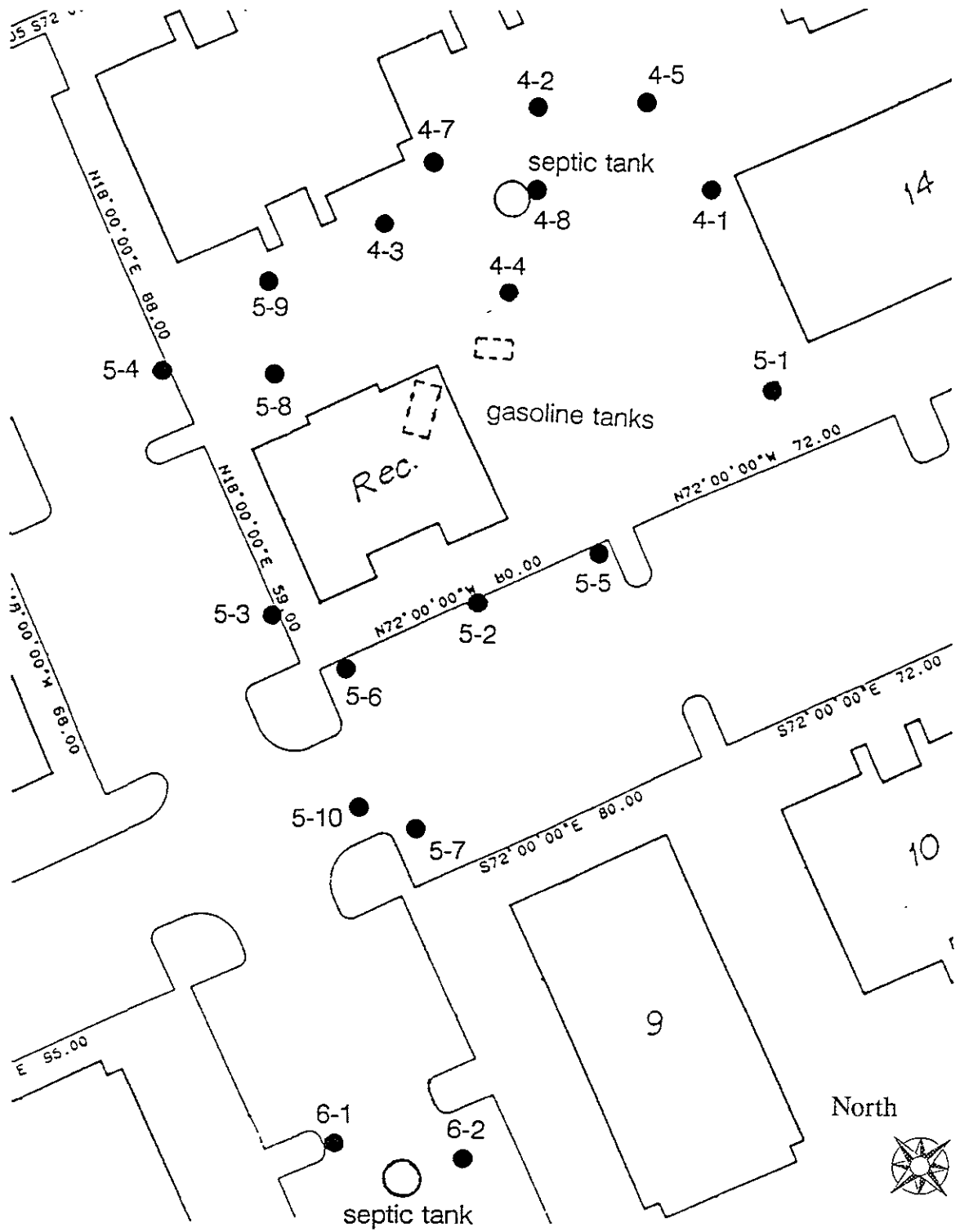


Figure Area 5 -- Gasoline Tanks near Pool -- Sample Locations

6

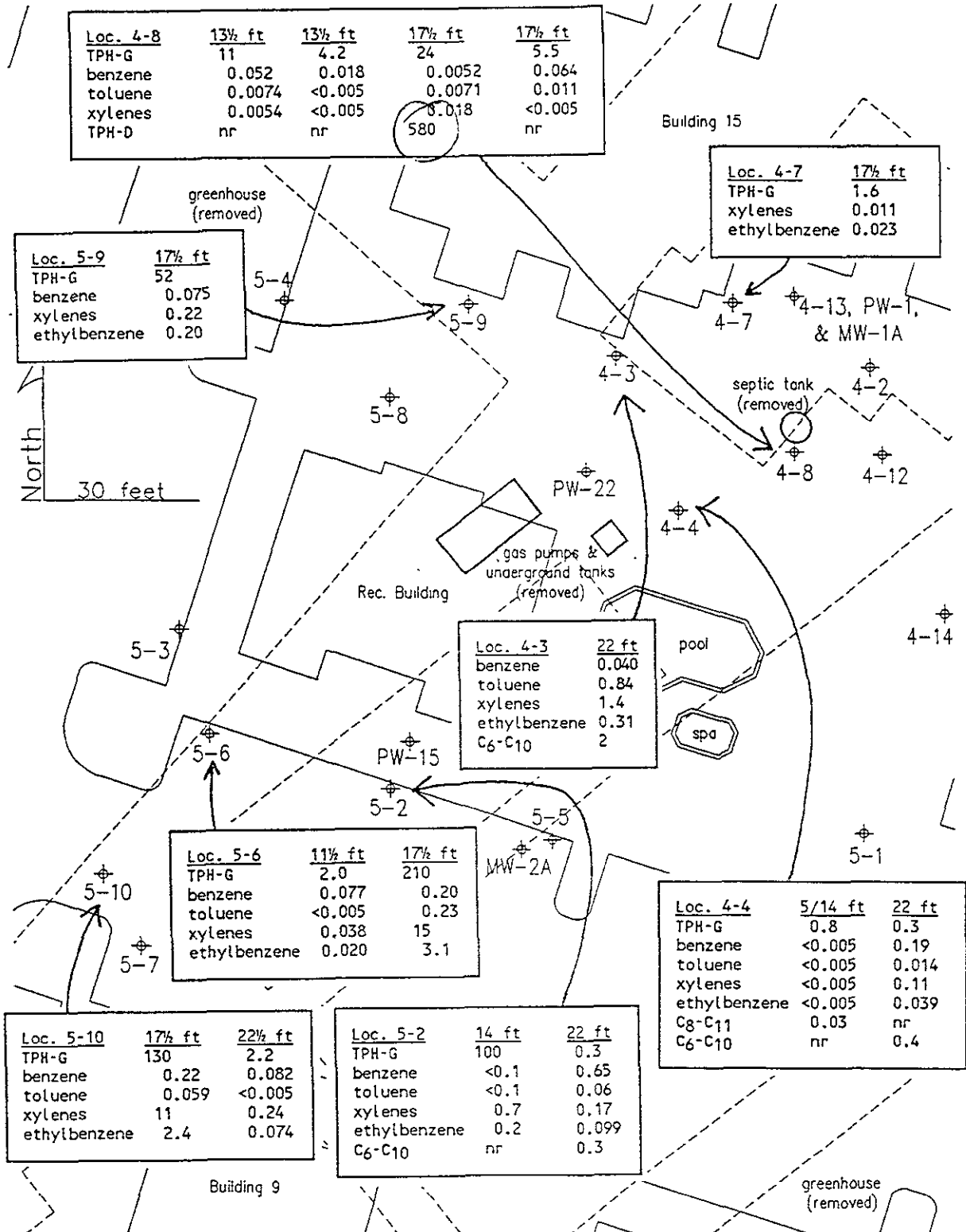


Figure
7

Area 5 -- Gasoline Tanks Near Pool -- Positive Analytical Results for Fuel-Related Compounds from Soil Samples (IN PPM)

Table 1 Groundwater Non-Pesticide Organic Compounds (ppb)^a

	<u>benzene</u>	<u>ethylbenzene</u>	<u>toluene</u>	<u>xylenes</u>	<u>gasoline</u>	<u>diesel</u>
MW-1A -- Area 4						
21 June 91 ^b	3.33	300	4.17	99.7	1,700	< 320
MW-2A -- Area 5						
21 June 91	< 0.5	< 0.5	0.787	< 1	< 100	< 320
MW-3A -- Area 6						
21 June 91	< 0.5	< 0.5	< 0.5	< 1	< 100	< 340
21 June 91	< 0.5	< 0.5	< 0.5	< 1	< 100	< 320
MW-4A						
21 June 91	< 0.5	< 0.5	< 0.5	< 1	< 100	< 330
MW-5A						
26 July 91	< 0.5	< 0.5	< 0.5	< 1	< 100	< 300

INITIAL GW SAMPLING RESULTS

- a. Benzene, toluene, xylenes, and ethylbenzene, ("BTX&E") were analyzed by EPA Method 602. Total volatile hydrocarbons ("gasoline") were analyzed by modified EPA Method 8015 with an EPA Method 5030 extraction. Total extractable hydrocarbon ("diesel") analyses were by modified EPA Method 8015 with an EPA Method 3520 extraction.
- b. The BTX&E analysis for this sample showed high surrogate recovery, indicating possible matrix interferences.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS (ppm)

WELL I.D.	DATE	BENZENE	E-BENZENE	TOLUENE	XYLENES	TPH-G	TPH-D	LEAD
MW-1A	6/21/91	0.00333	0.300	0.00417	0.0997	1.700	<0.320	NA
	5/4/92	<0.0125	0.612	<0.0125	0.0147	<0.100	NA	<0.050
	5/4/92	<0.0125	0.627	<0.0125	0.0221	<0.100	NA	<0.050
	10/13/92	0.150	1.500	<0.050	0.840	12.000	NA	<0.003
	11/9/92	0.080	1.200	0.003	0.440	7.2	NA	NA
	11/9/92	0.080	1.200	0.003	0.400	6.7	NA	NA
	2/8/93	0.011	0.200	<0.0005	0.031	2.400	NA	NA
	2/8/93	0.011	0.210	<0.0005	0.033	2.500	NA	NA
	5/18/93	0.021	0.430	0.001	0.110	2.6	0.2	NA
	5/18/93	0.021	0.450	0.001	0.110	2.8	0.2	NA
	3/3/94 ^a	<0.003	0.110	<0.003	0.016	0.810	<0.50	NA
	6/7/94 ^a	0.0034	0.240	<0.0003	<0.0003	1.500	<0.50	NA
	9/1/94 ^a	0.00094	0.028	<0.0003	0.0015	0.150	<0.05	NA
	12/13/94 ^a	<0.003	0.150	<0.003	0.011	0.720	<0.05	NA
	10/20/95 ^a	<0.003	0.030	<0.003	<0.003	0.940	NA	NA
	4/5/96	<0.0003	0.0048	<0.0003	<0.0003	0.220	NA	NA
MW-2A	6/21/91	<0.0005	<0.0005	0.000787	<0.001	<0.100	<0.320	NA
	5/4/92	<0.0005	<0.0005	<0.0005	<0.0005	<0.100	NA	<0.050
	10/13/92	0.0013	<0.0005	<0.0005	<0.0005	0.110	NA	<0.003
	11/9/92	<0.0003	<0.0003	<0.0003	<0.001	0.08	NA	NA
	2/8/93	<0.0005	<0.0005	<0.0005	<0.0005	0.076	NA	NA
	5/18/93	<0.0005	<0.0005	<0.0005	<0.002	0.07	0.09	NA
	3/3/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	6/6/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	9/1/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	NA
	12/13/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	NA
MW-3A	6/21/91	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.340	NA
	6/21/91	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.320	NA
	5/4/92	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	NA	<0.050
	5/18/93	<0.0005	<0.0005	<0.0005	<0.002	<0.05	<0.05	NA
	6/6/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	12/13/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	NA
MW-4A	6/21/91	<0.0005	<0.0005	<0.0005	<0.001	<0.100	<0.330	NA
	5/18/93	<0.0005	<0.0005	<0.0005	<0.002	<0.05	<0.05	NA
	6/6/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	12/12/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	NA
MW-5A	7/26/91	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.300	NA
	11/9/92	<0.0003	<0.0003	<0.0003	<0.001	<0.05	NA	NA
	5/18/93	<0.0005	<0.0005	<0.0005	<0.002	<0.05	<0.05	NA
	6/6/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	12/13/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	NA

TABLE 2
GROUNDWATER ANALYTICAL RESULTS (ppm)

WELL ID.	DATE	BENZENE	E-BENZENE	TOLUENE	XYLENES	TPH-G	TPH-D	LEAD
MW-6A	10/13/92	<0.0005	<0.0005	<0.0005	<0.0005	0.050	NA	<0.003
	2/8/93	NA	NA	NA	NA	NA	0.090	NA
	5/18/93	<0.0005	<0.0005	<0.0005	<0.002	<0.05	<0.05	NA
	3/3/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	6/6/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	9/1/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	12/13/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	NA
MW-7A	10/13/92	<0.0005	<0.0005	<0.0005	<0.0005	<0.050	NA	<0.003
	10/13/92	<0.0005	<0.0005	<0.0005	<0.0005	<0.050	NA	NA
	5/18/93	<0.0005	<0.0005	<0.0005	<0.002	<0.05	<0.05	NA
MW-8A	2/8/93	0.001	<0.001	<0.001	<0.001	<0.050	0.220	NA
	5/18/93	<0.0005	<0.0005	<0.0005	<0.002	<0.05	<0.05	NA
	3/3/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	6/6/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	9/1/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.50	NA
	12/12/94 ^a	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	NA

ppm - parts per million

NA - Not Analyzed.

a - Groundwater samples collected by McLaren/Hart.

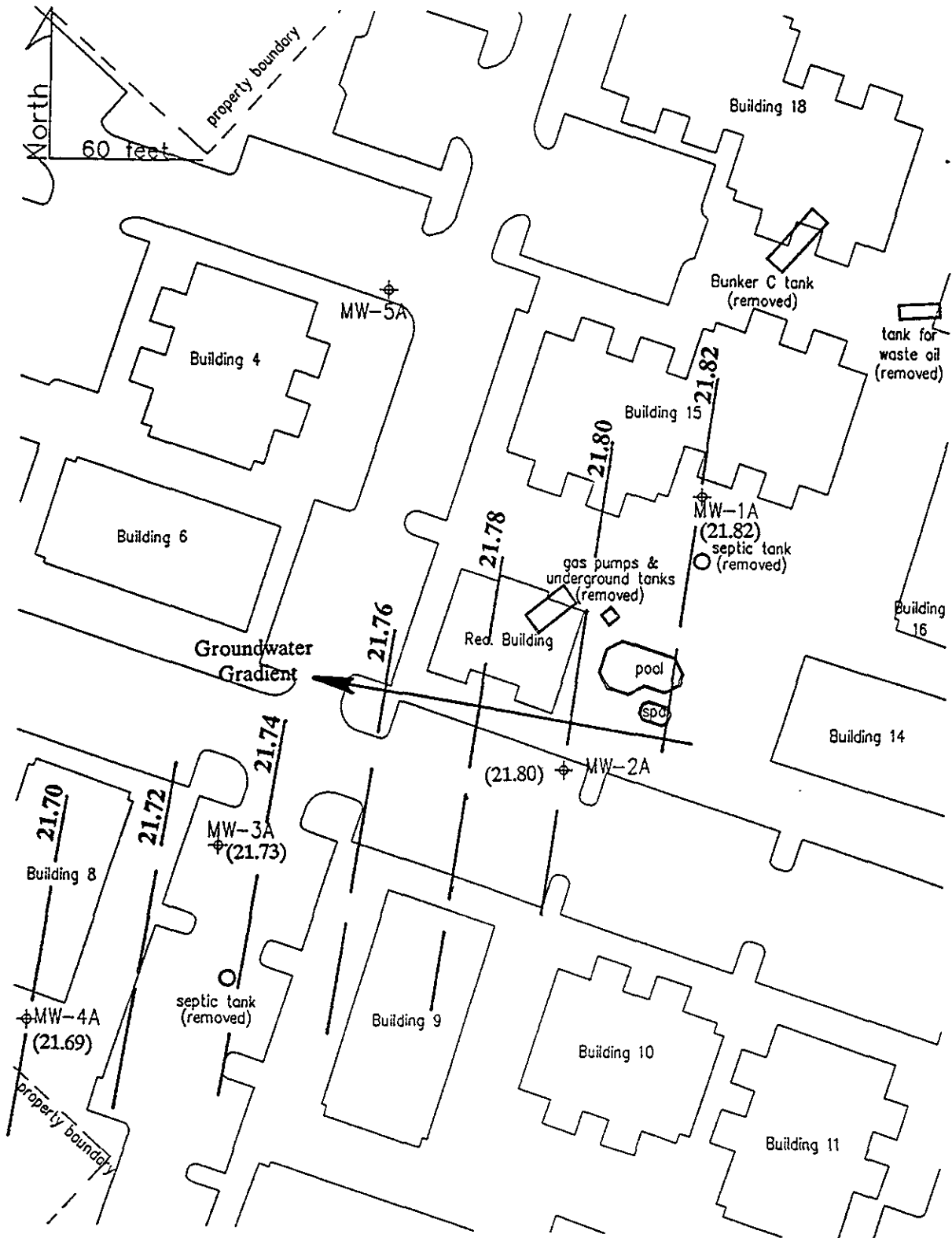


Figure 14. Water Table Elevation Contours -- July 11, 1991

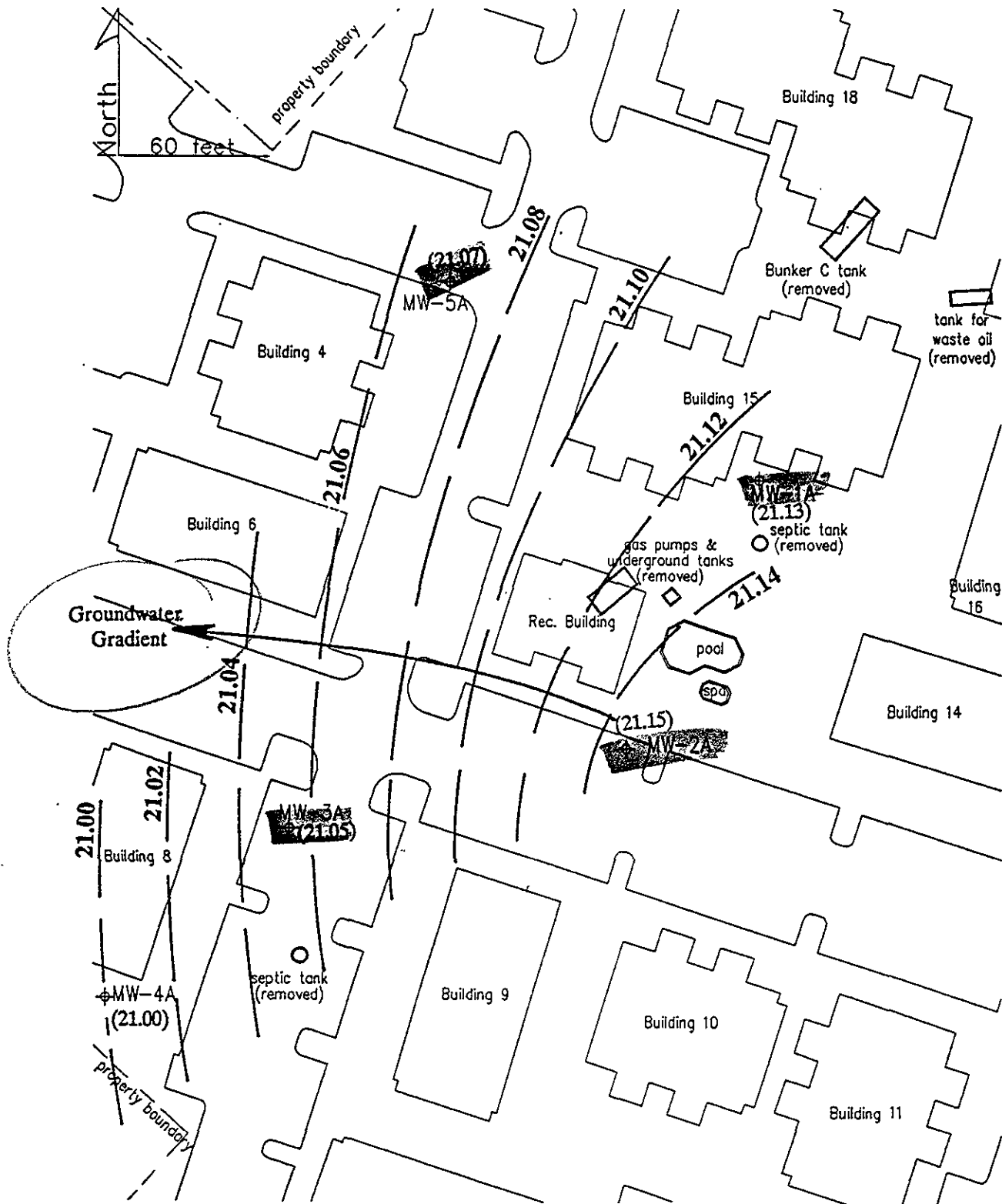


Figure 15. Water Table Elevation Contours -- August 19, 1991

Parkside Commons Apartments
San Leandro, California

Additional Groundwater Monitoring Wells

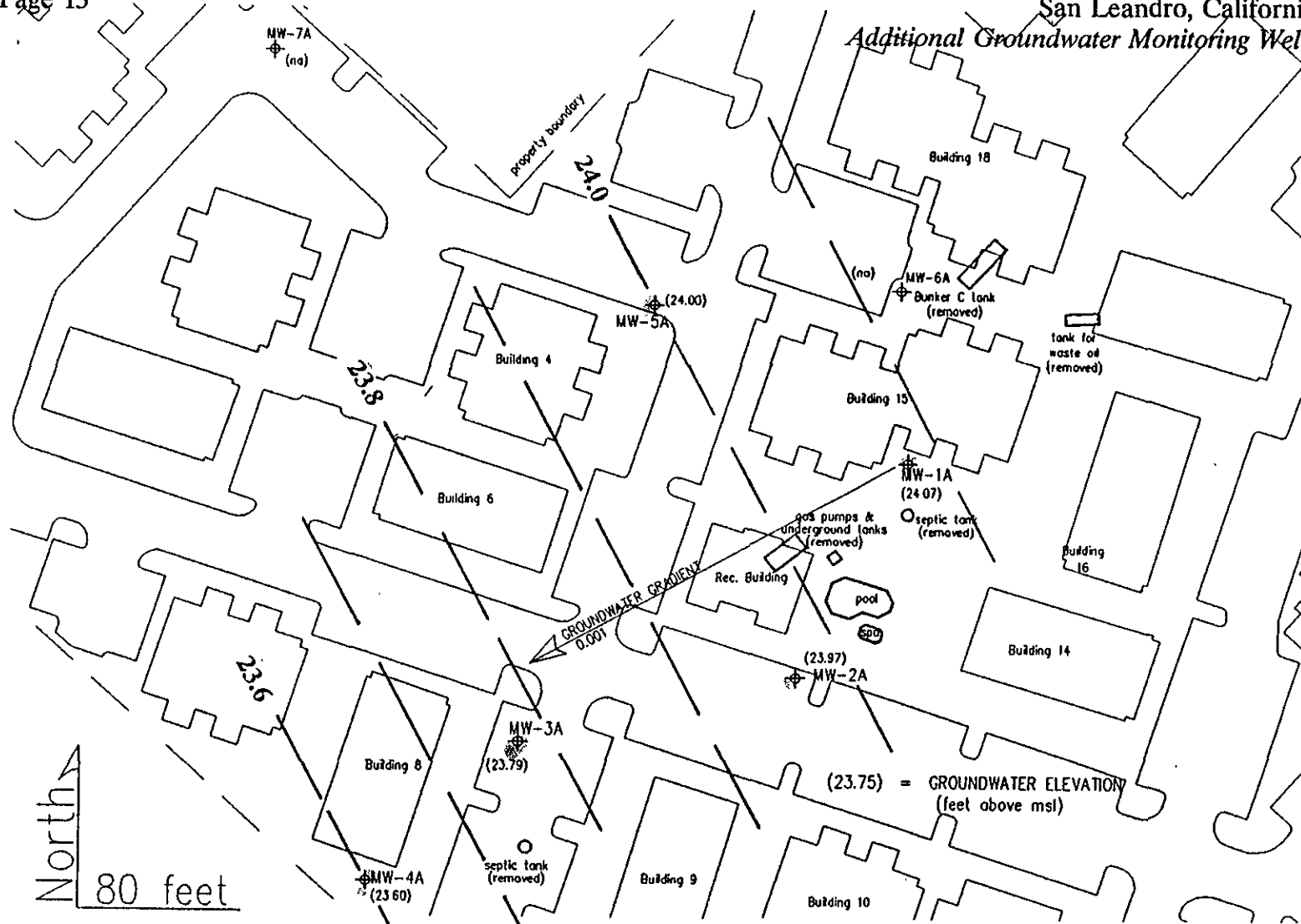


Figure 3. Groundwater Gradient -- April 10, 1992

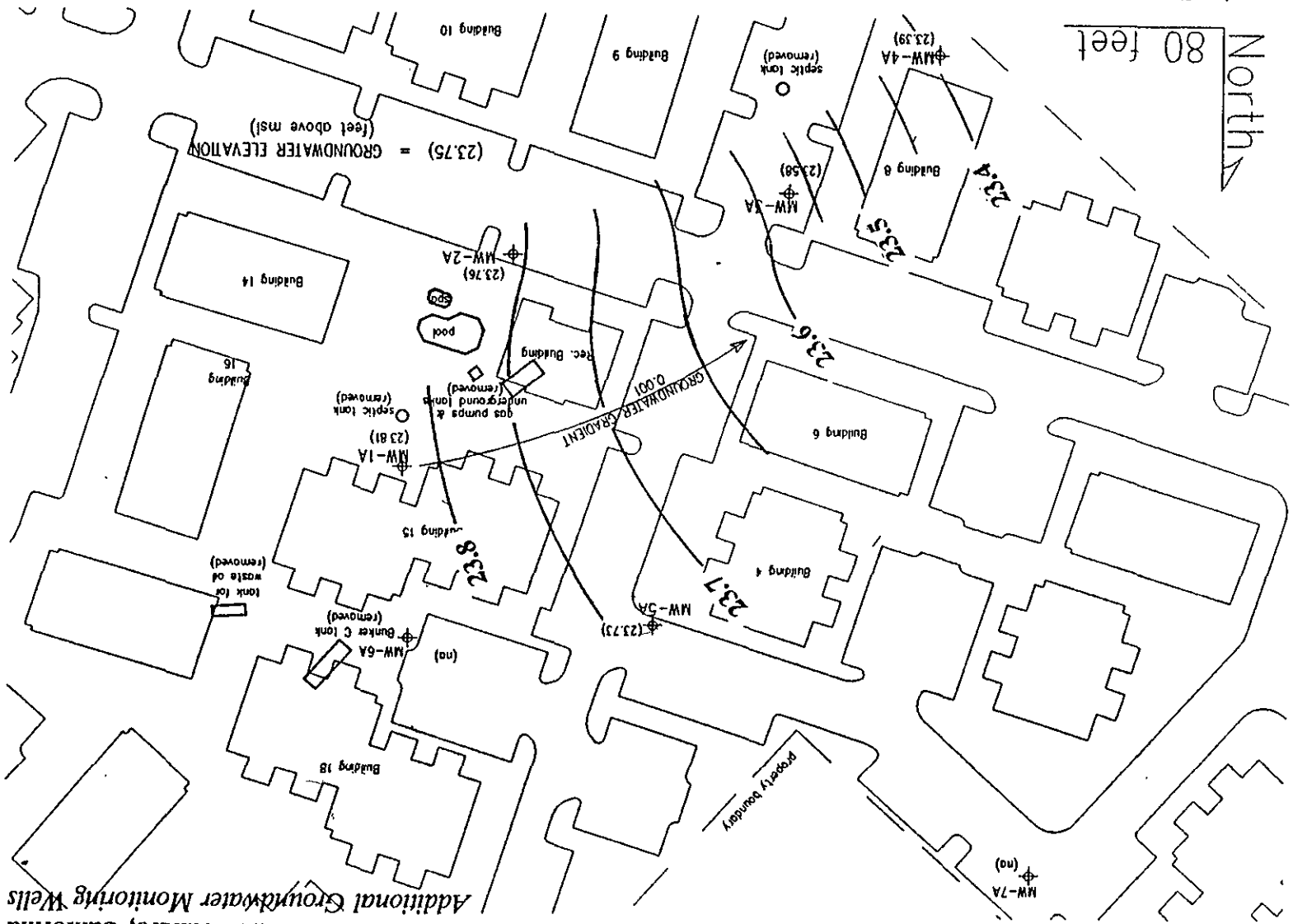


Figure 4. Groundwater Gradient -- May 4, 1992

Parkside Commons Apartments
San Leandro, California

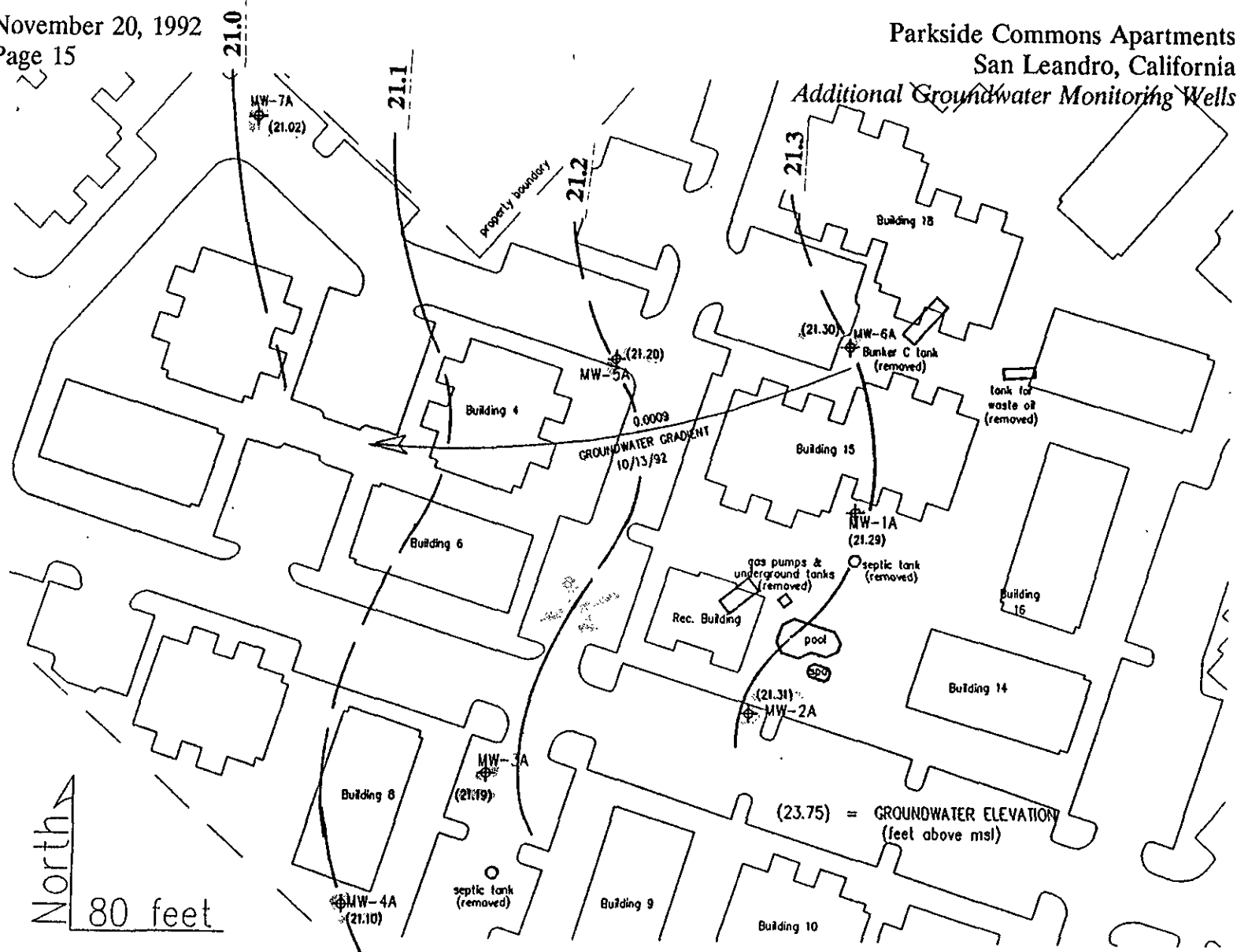


Figure 5. Groundwater Gradient -- October 13, 1992

Additional Groundwater Monitoring Wells

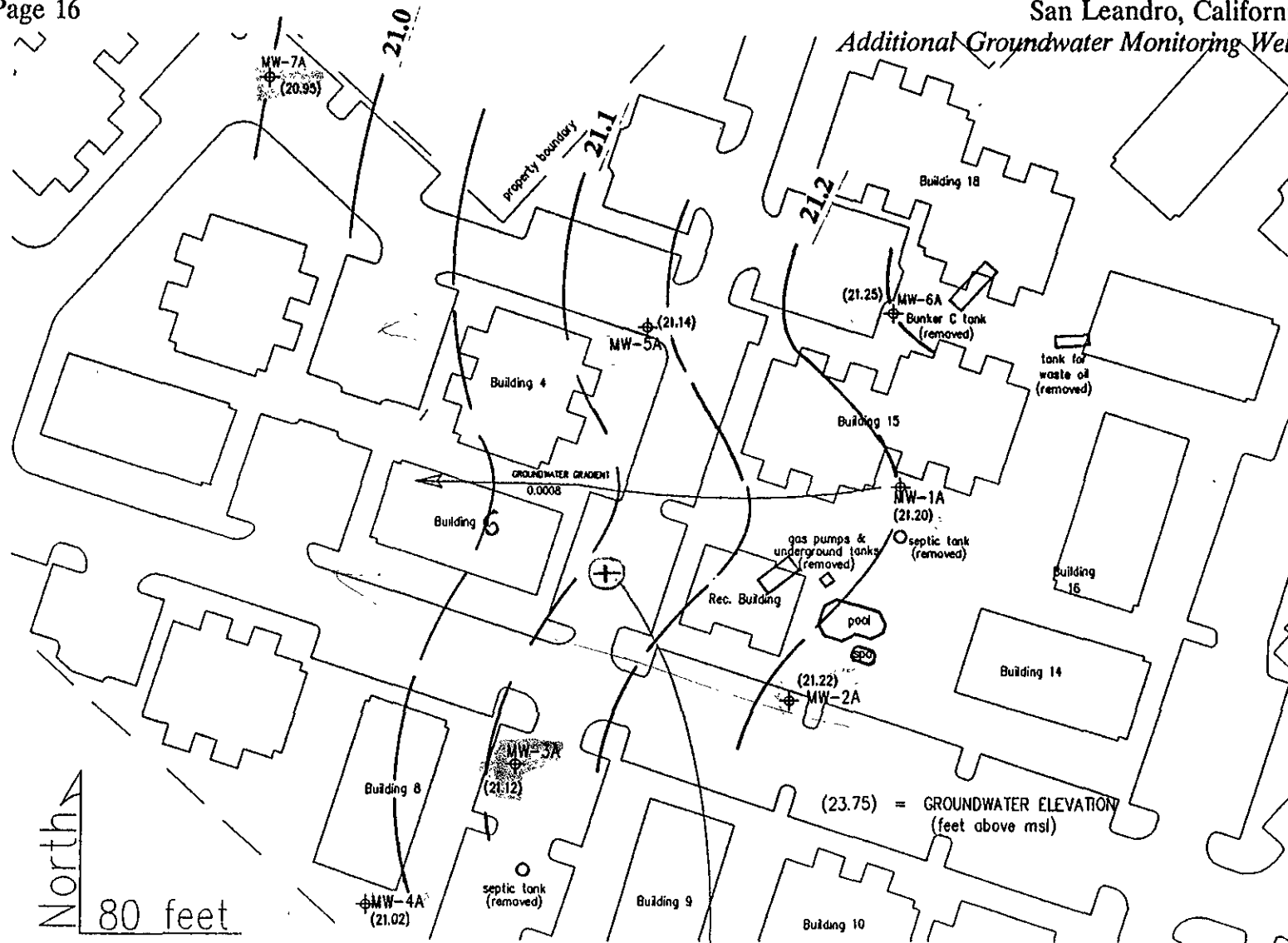


Figure 6. Groundwater Gradient -- November 9, 1992

POSSIBLE FUTURE MW LOCATION MW-8A

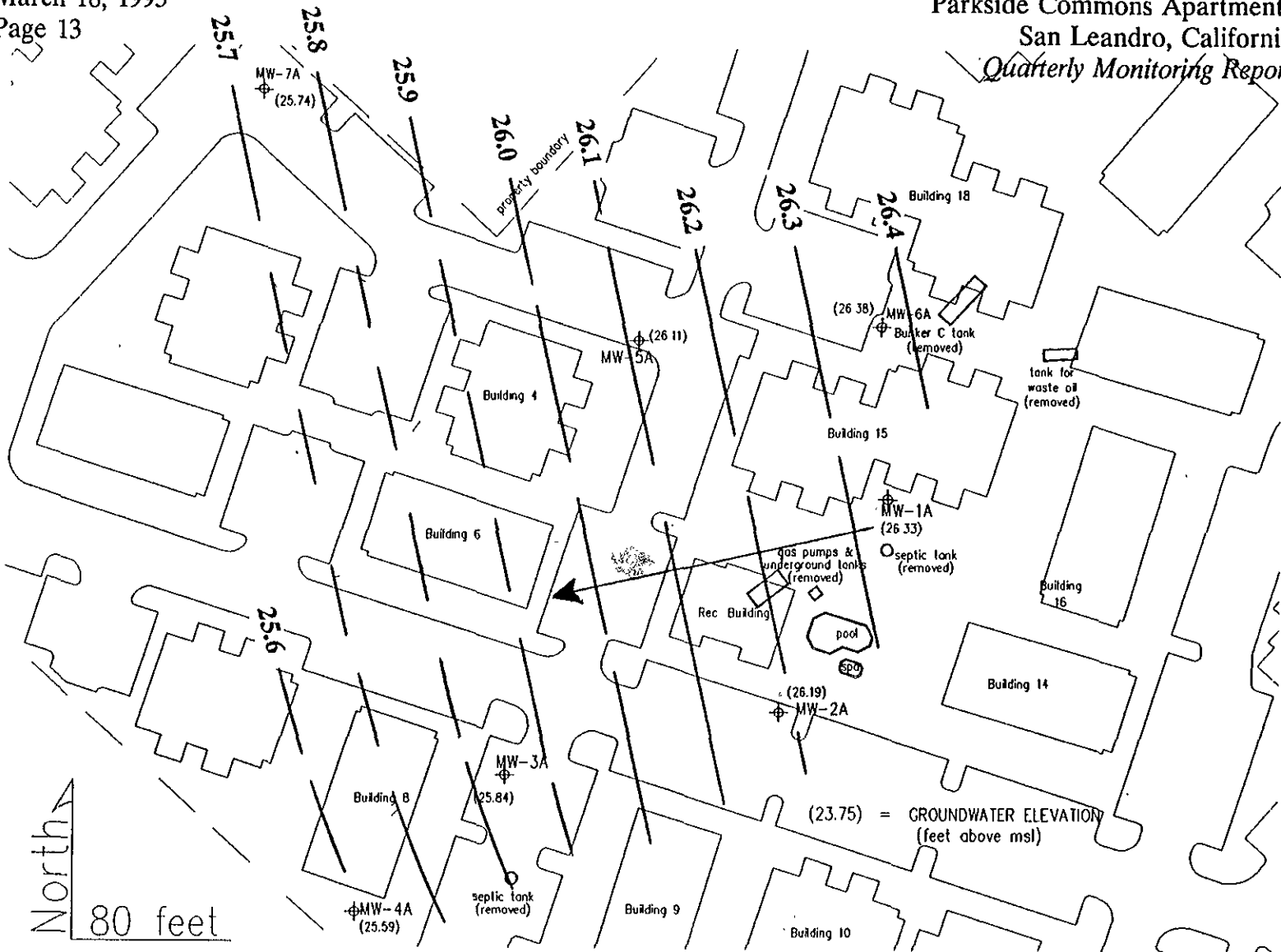


Figure 3. Groundwater Piezometric Surface Contours -- January 29, 1993

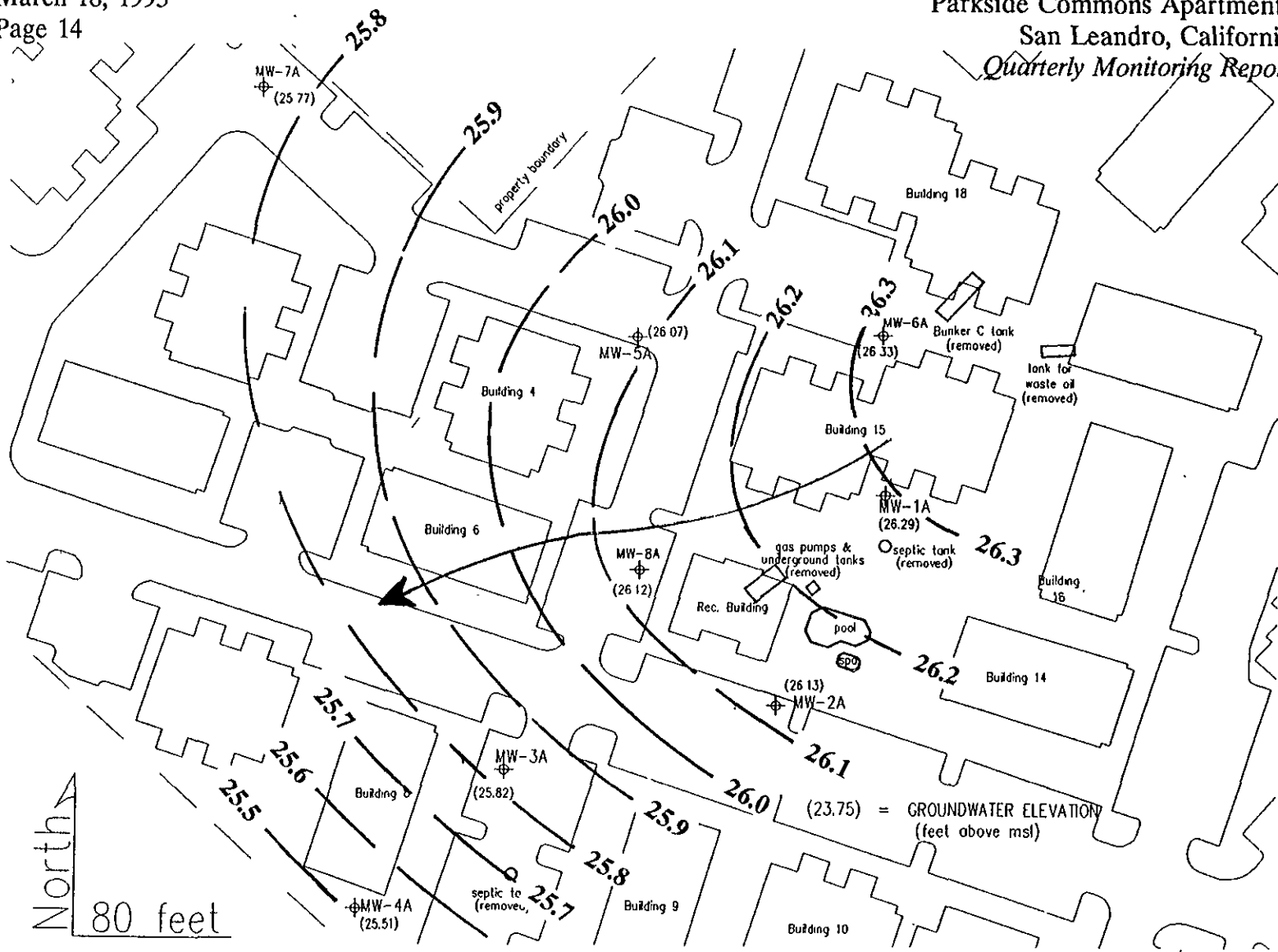


Figure 4. Groundwater Piezometric Surface Contours -- February 8, 1993

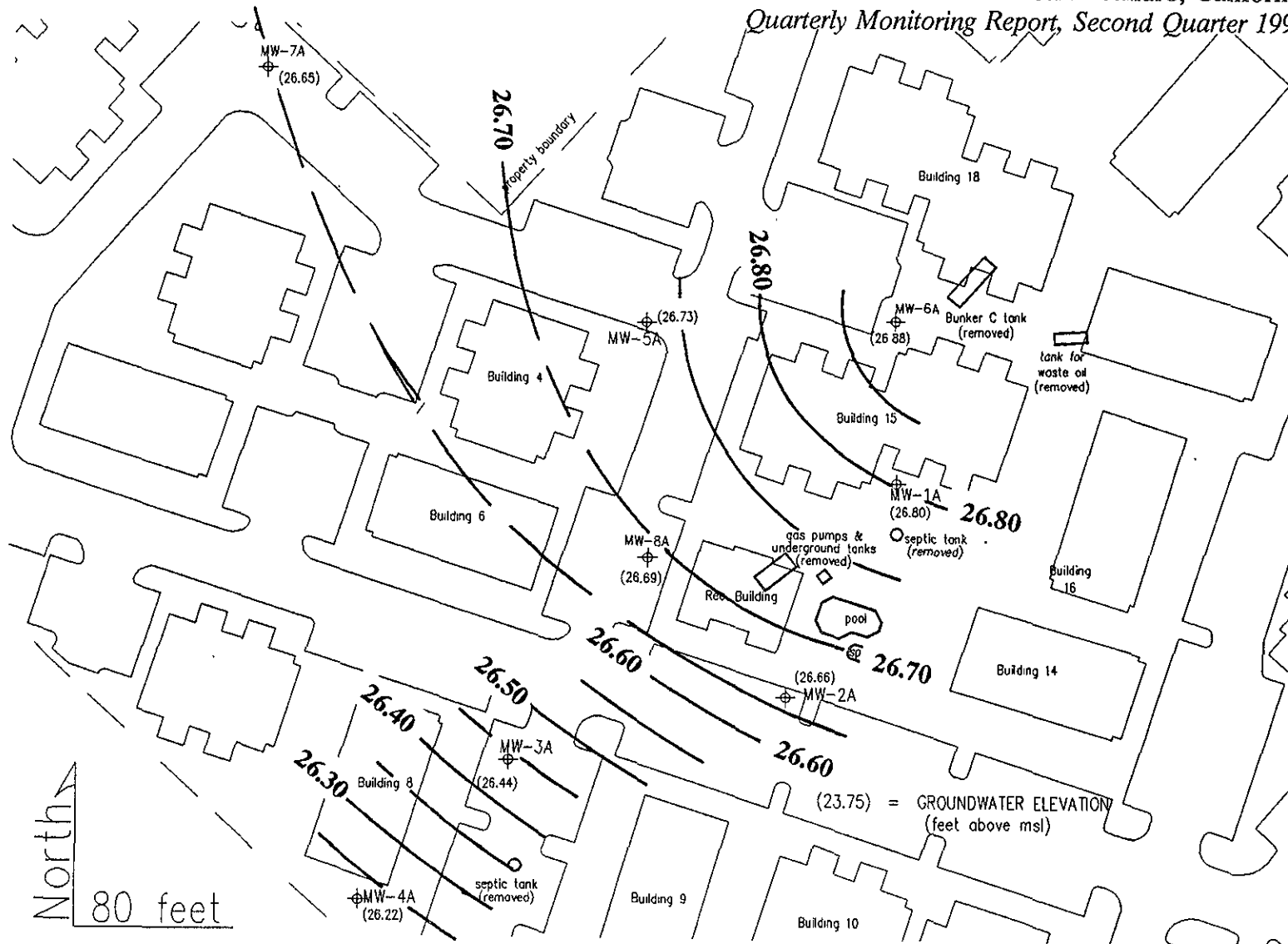


Figure 3. Groundwater Piezometric Surface Contours -- April 30, 1993

Quarterly Monitoring Report, Second Quarter 1993

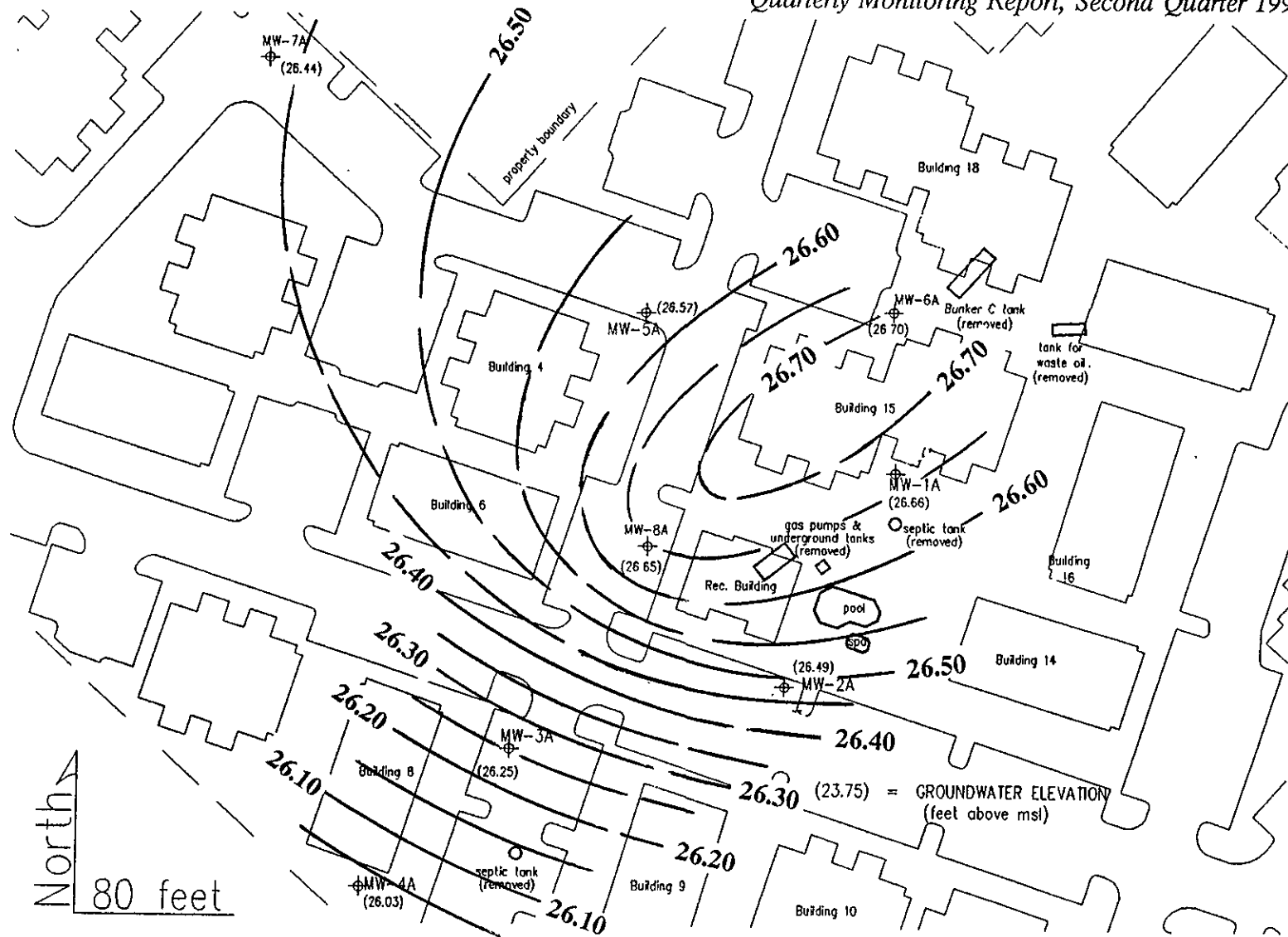


Figure 4. Groundwater Piezometric Surface Contours -- May 18, 1993

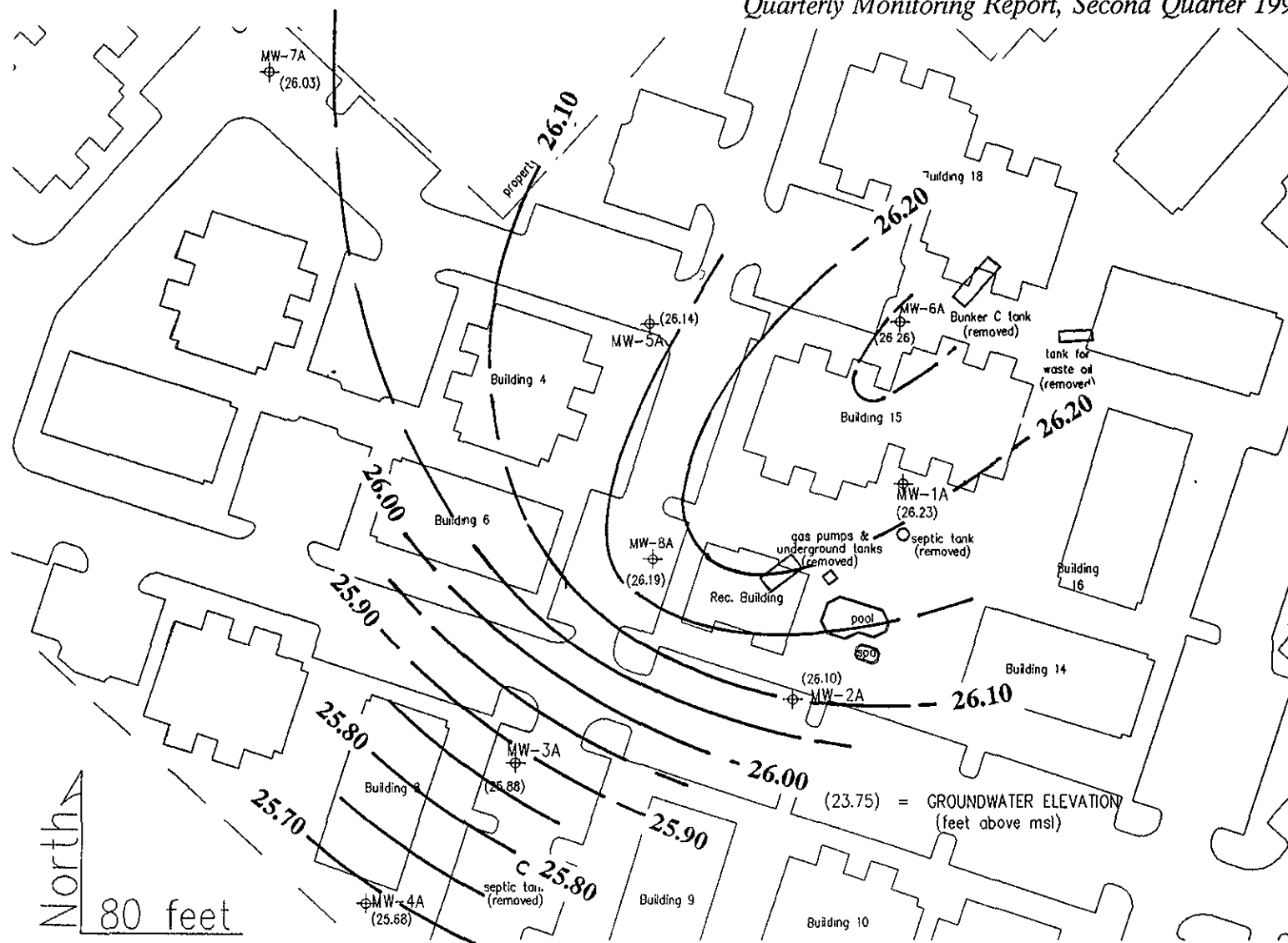


Figure 5. Groundwater Piezometric Surface Contours -- June 16, 1993

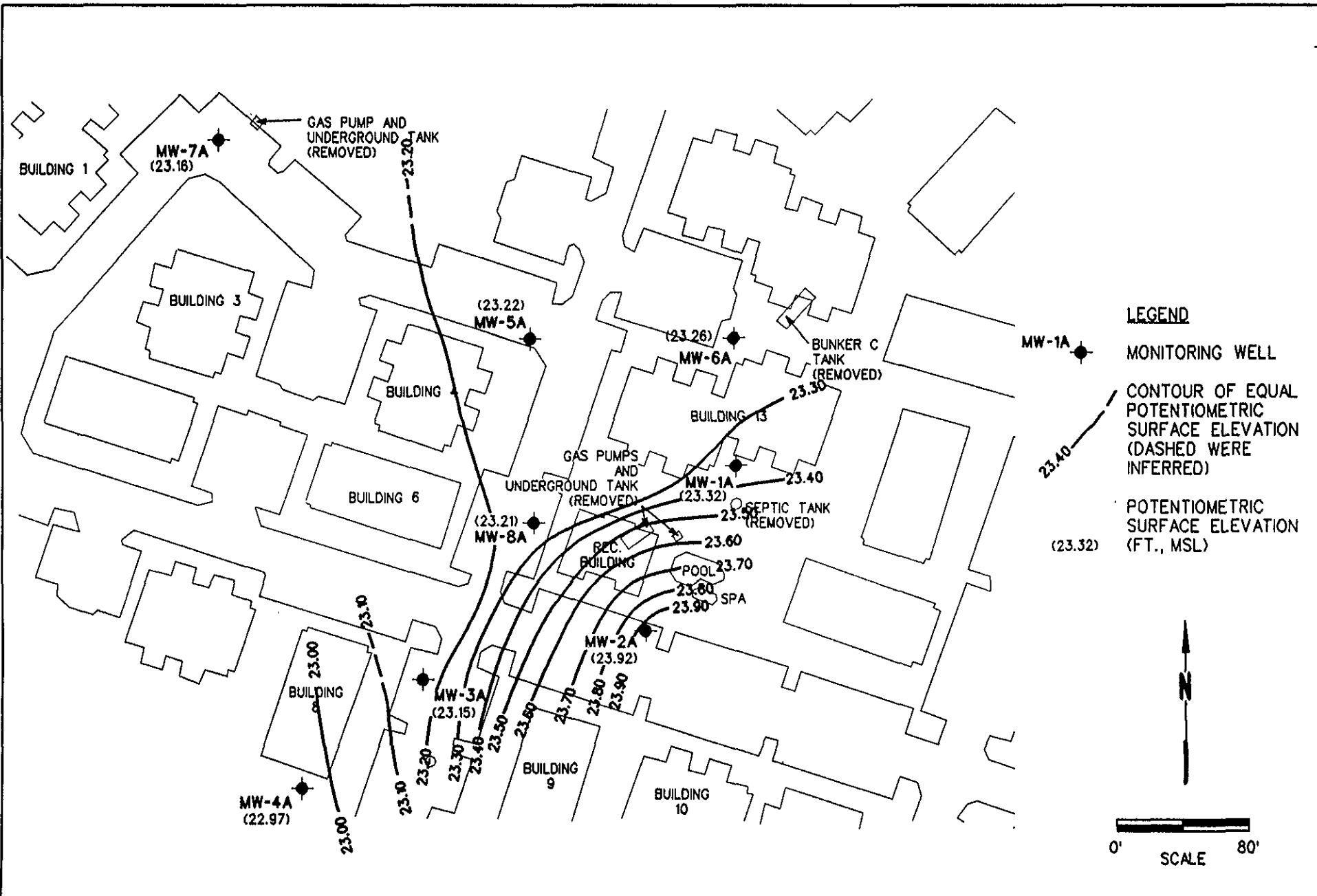


FIGURE 3
 POTENTIOMETRIC SURFACE ELEVATION
 CONTOURS-NOVEMBER 3, 1993
 PARKSIDE COMMONS APARTMENTS
 SAN LEANDRO, CALIFORNIA



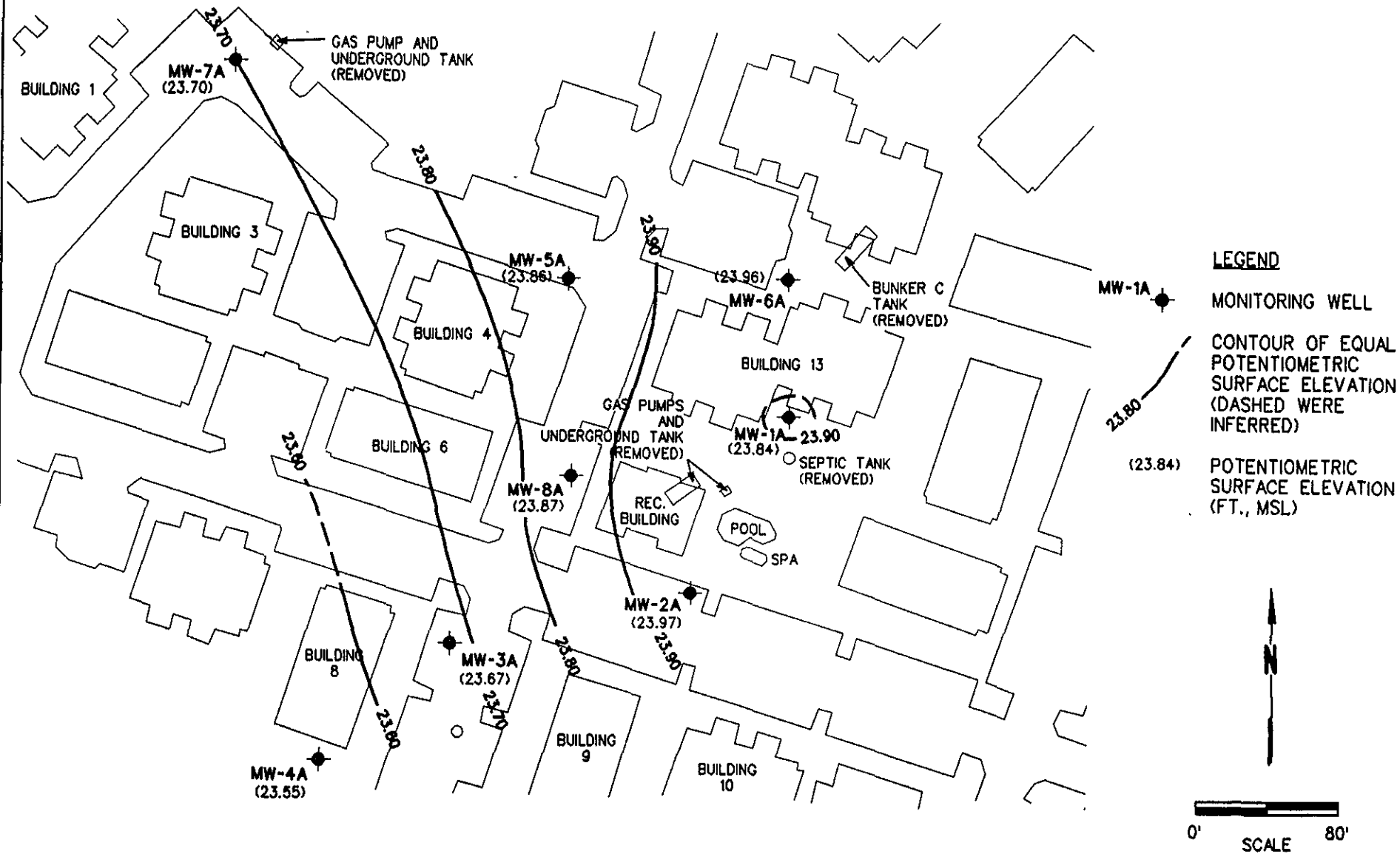
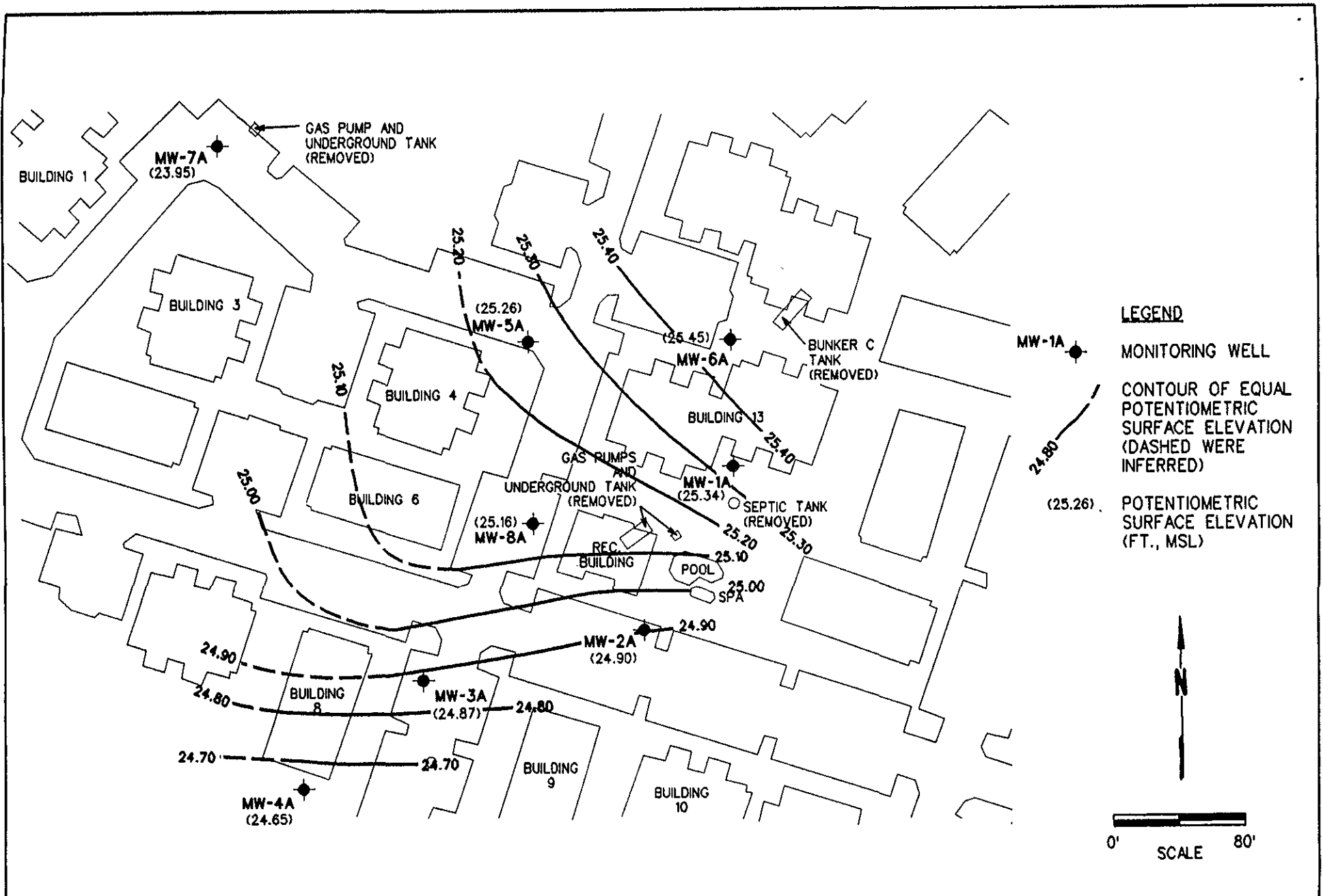


FIGURE 4
 POTENTIOMETRIC SURFACE ELEVATION
 CONTOURS-DECEMBER 20, 1993
 PARKSIDE COMMONS APARTMENTS
 SAN LEANDRO, CALIFORNIA





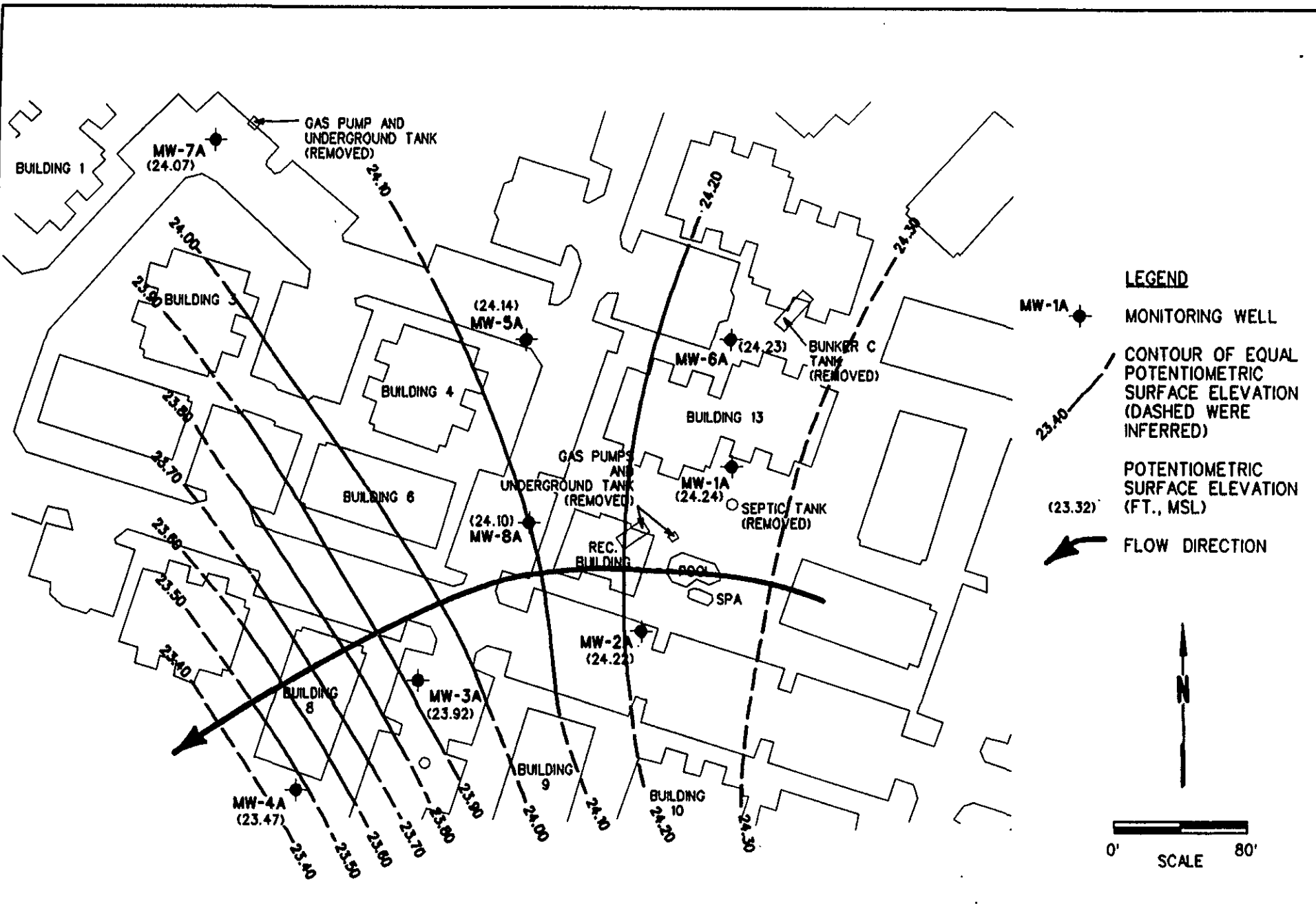
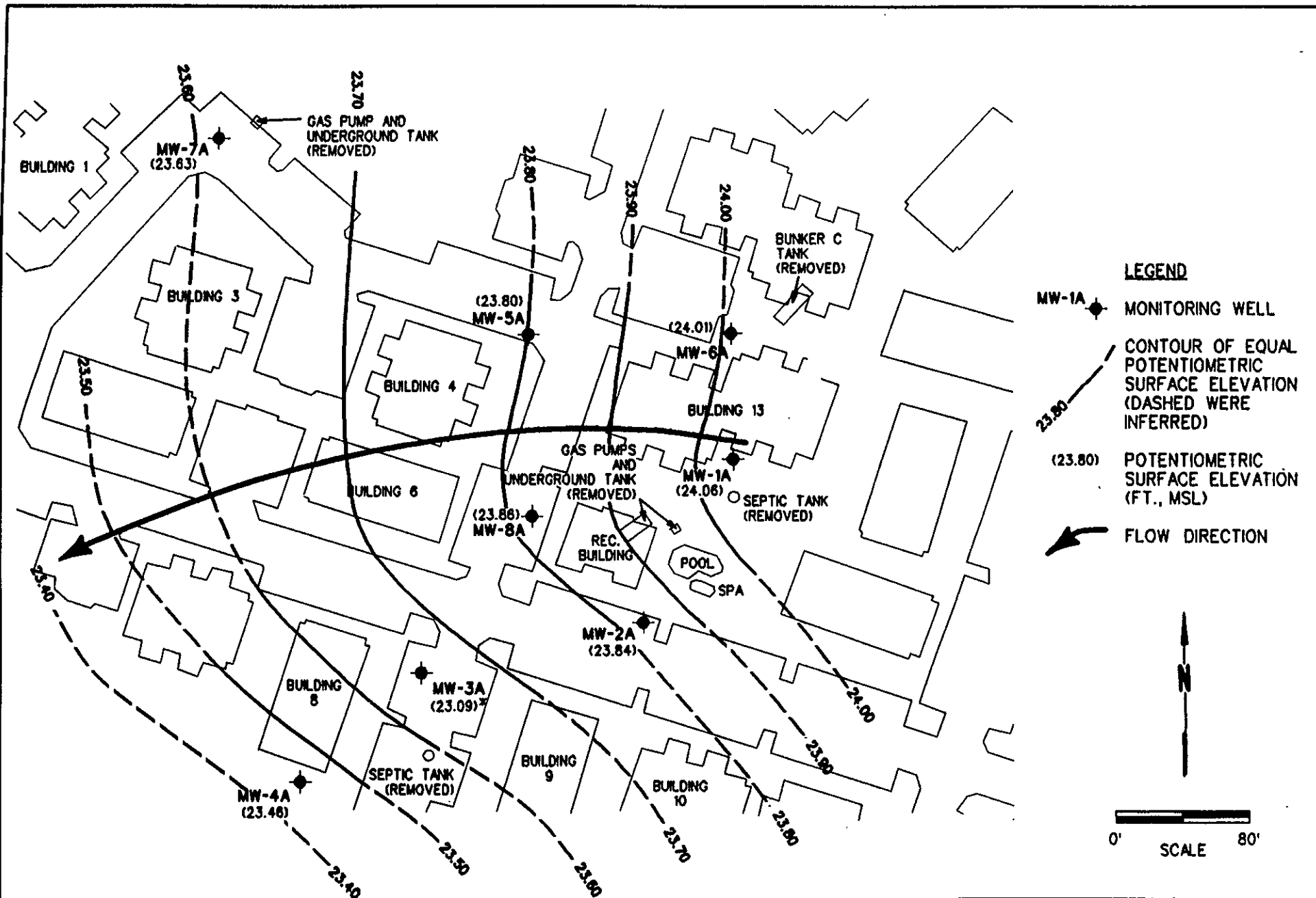


FIGURE 3
 JUNE, 1994
 POTENTIOMETRIC SURFACE ELEVATIONS
 PARKSIDE COMMONS APARTMENTS
 SAN LEANDRO, CALIFORNIA





* DATA NOT USED TO CONSTRUCT CONTOURS



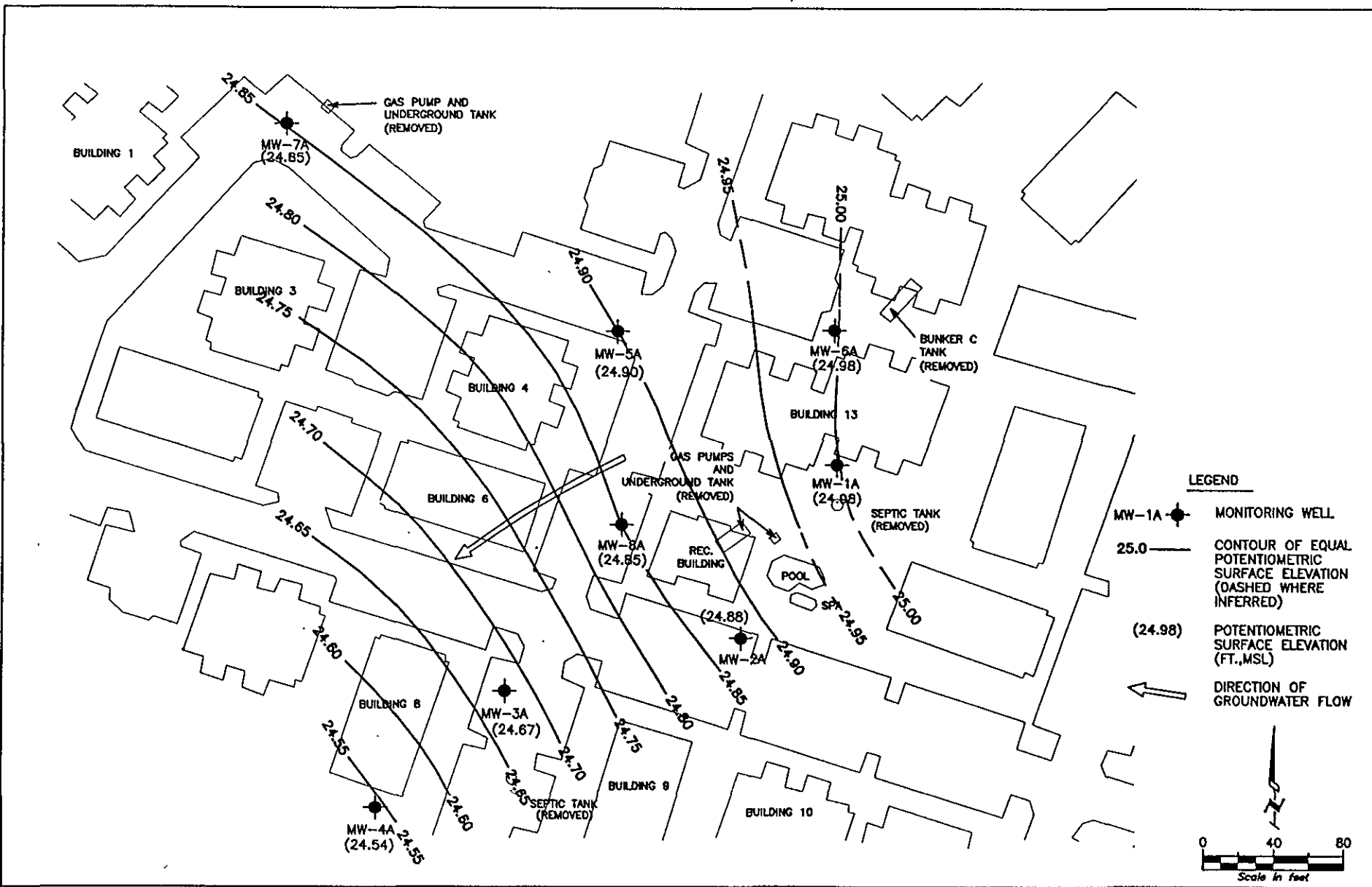
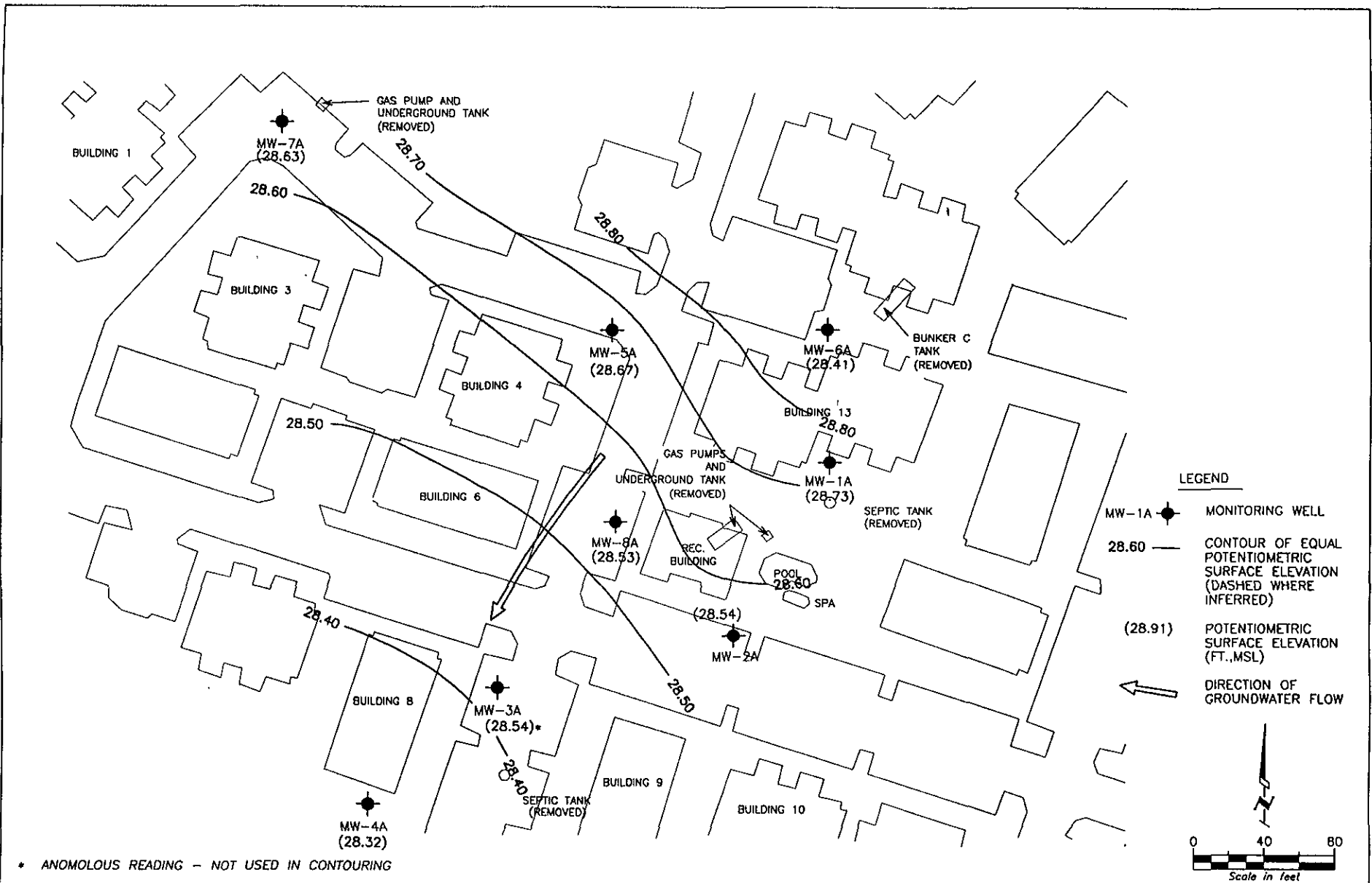


FIGURE 3
 OCTOBER 20, 1995
 POTENTIOMETRIC SURFACE ELEVATION CONTOURS
 PARKSIDE COMMONS APARTMENTS
 SAN LEANDRO, CALIFORNIA





* ANOMOLOUS READING - NOT USED IN CONTOURING

FIGURE 3
 MARCH 26, 1996
 POTENTIOMETRIC SURFACE ELEVATION CONTOURS
 PARKSIDE COMMONS APARTMENTS
 SAN LEANDRO, CALIFORNIA





RUSSELL RESOURCES, INC.

Monitoring Well MW-1A

Project Parkside Commons Apartments

Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Date Drilled 6/18/91

Total Depth of Hole 30.01 ft.

Diameter 8.00 in.

See Site Map
For Boring Location

Surface Elevation 40.68 ft.

Water Level Initial 20 ft.

24-hour 18.92 ft.

X-Coord: 707.31 ft.

Screen: Dia 2 in.

Length 15 ft.

Slot Size .020 in.

NOTES:

Y-Coord: 893.57 ft.

Casing: Dia 2 in.

Length 15 ft.

Type Sch.40 PVC

Coord. System: feet relative

Filter Pack Material Lapis Lustre No. 3

Drilling Company HEW Drilling Co. Inc.

Drilling Method Hollow Stem Auger

Driller Mike Douglas

Log by Allen B. Storm

Geologist/Engineer Allen B. Storm

License No RG 4394

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0						Grass at surface.
0-10		0	061890 3 061891 7 061891 10		Cl	Black silty CLAY, slightly organic, with some brick fragments (Probable Fill)
10-12		0			Cl	Brown silty CLAY, with some fine sand and silt (hard, dry) (contains thin light grey root traces)
12-14		0			Cl	Greenish brown fine sandy CLAY (medium stiff, damp)
14-16		0			Cl	(grades to silty CLAY)
16-18		0			Cl	Greenish brown silty CLAY (medium stiff, damp) (contains black and grey root traces)



RUSSELL RESOURCES, INC.

Monitoring Well MW-1A

Project Parkside Commons Apartments

Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)					
18		0	9 12 15		P S S S S S S S S S S S S S S	<p>Brown fine to medium SAND (loose, wet) (occasional pebbles to 1/2" diameter) (thin lenses of more clay rich fine sand)</p> <p>Encountered water 6/18/91, 1330 hours</p>					
20											
22											
24											
26							0	3 7 9		S S S	<p>Brown fine to medium SAND (loose, wet)</p> <p>Fine GRAVEL and coarse SAND (loose, wet) (generally 1/8" or less, occasional pebbles to 1/2")</p> <p>(Sand heaved into augers approximately 1-foot)</p>
28											
30											
32											
34											
36											
38											
40											



RUSSELL RESOURCES, INC.

Monitoring Well MW-2A

Project Parkside Commons Apartments

Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Date Drilled 6/18/91

Total Depth of Hole 25.0 ft

Diameter 8.00 in.

See Site Map
For Boring Location

Surface Elevation 40.32 ft.

Water Level Initial 19.5 ft.

24-hour 18.58 ft.

X-Coord: 653.36 ft.

Screen: Dia 2 in.

Length 10 ft.

Slot Size .020 in.

NOTES:

Y-Coord: 785.78 ft.

Casing: Dia 2 in.

Length 15 ft.

Type Sch.40 PVC

Coord. System: feet relative

Filter Pack Material Lapis Lustre No. 3

Drilling Company HEW Drilling Co. Inc.

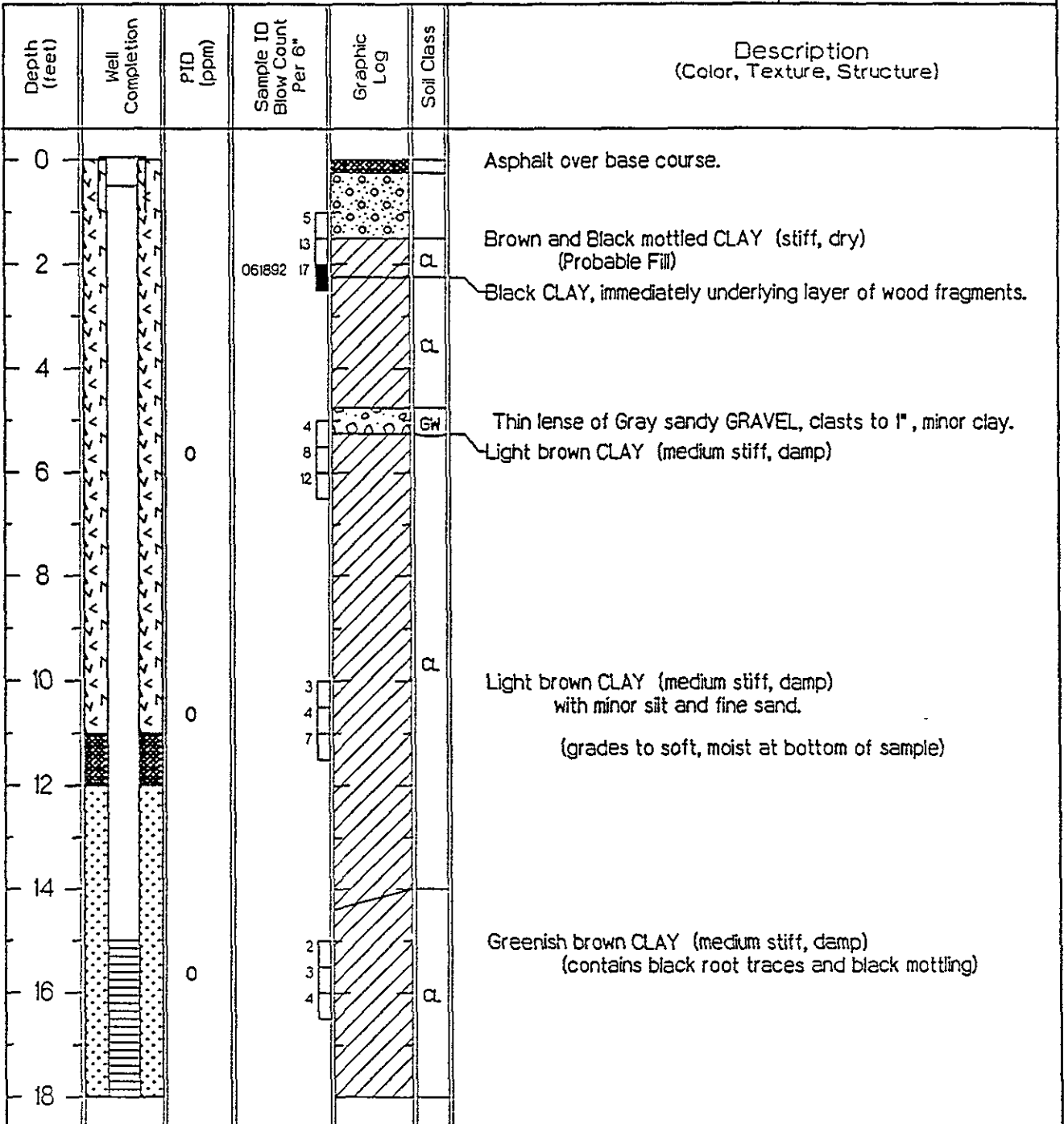
Drilling Method Hollow Stem Auger

Driller Mike Douglas

Log by Allen B. Storm

Geologist/Engineer Allen B. Storm

License No RG 4394





RUSSELL RESOURCES, INC.

Monitoring Well MW-2A

Project Parkside Commons Apartments

Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
18		0	1 3 11		P S	Brown fine to medium SAND (loose, wet), generally well sorted, with occasional coarse sand and fine gravel clasts, minor clay. Encountered water 6/18/91, 0930 hours (Core Sample contained thin lenses (4-6") of clay rich sand and thin lenses of coarse sand)
20						
22						
24						
26		0	2 3 3			End of boring, constructed monitoring well. (No recovery in core sampler) Driller noted that sand had heaved into augers up to 23 feet. When augers were pulled, casing was pulled down to total depth.
28						
30						
32						
34						
36						
38						
40						



RUSSELL RESOURCES, INC.

Monitoring Well MW-3A

Project Parkside Commons Apartments Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Date Drilled 6/19/91 Total Depth of Hole 25.0 ft. Diameter 8.00 in.

Surface Elevation 38.79 ft. Water Level Initial 20.5 ft. 24-hour 16.96 ft.

X-Coord: 516.88 ft. Screen: Dia 2 in. Length 10 ft. Slot Size .020 in.

Y-Coord: 753.74 ft. Casing: Dia 2 in. Length 15 ft. Type Sch.40 PVC

Coord. System: feet relative Filter Pack Material Lapis Lustre No. 3

Drilling Company HEW Drilling Co. Inc. Drilling Method Hollow Stem Auger

Driller Mike Douglas Log by Allen B. Storm

Geologist/Engineer Allen B. Storm License No RG 4394

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0						Asphalt over base course.
0-2			061993			Black CLAY (stiff, slightly moist)
2-6		0			CL	Brown silty CLAY (stiff, slightly moist)
6-10		0			GW	Brown coarse Sand, grading to fine GRAVEL, poorly sorted, with angular, coarse to fine sand (loose, damp),
10-12					CL	Brown silty CLAY (soft, damp)
12-16		0			GW	Brown sandy GRAVEL (moderately loose, damp) (thin lense)
16-18					CL	Brown silty CLAY (medium stiff, moist) (grades less stiff, more moist at bottom of sample)



RUSSELL RESOURCES, INC.

Monitoring Well MW-3A

Project Parkside Commons Apartments

Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
18		0	2 8 16		R	Greenish Brown silty CLAY (soft, moist), with some fine sand.
20						Encountered water 6/19/91, 1030 hours
22						Greenish brown fine SAND (moderately dense, moist to wet), with some silt and clay matrix, occasional angular pebbles to 1/4".
24		0	6 8 10		SW	Tan Brown CLAY (stiff, damp), slightly silty, with grey mottling.
26						End of boring, constructed monitoring well.
28						Heaving sands required re-drilling to bottom before setting casing. Medium to coarse grained loose sand on auger plug, with some pebbles to 3/8" diameter. Sand rose to 24-feet around screen.
30						
32						
34						
36						
38						
40						



RUSSELL RESOURCES, INC.

Monitoring Well MW-4A

Project Parkside Commons Apartments Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave, San Leandro, CA

Date Drilled 6/19/91 Total Depth of Hole 25.0 ft. Diameter 8.00 in.

Surface Elevation 39.29 ft. Water Level Initial 19.0 ft. 24-hour 17.60 ft.

X-Coord: 442.57 ft. Screen: Dia 2 in. Length 12 ft. Slot Size .020 in.

Y-Coord: 684.35 ft. Casing: Dia 2 in. Length 13 ft. Type Sch.40 PVC

Coord. System: feet relative Filter Pack Material Lapis Lustre No. 3

Drilling Company HEW Drilling Co. Inc. Drilling Method Hollow Stem Auger

Driller Mike Douglas Log by Allen B. Storm

Geologist/Engineer Allen B. Storm License No RG 4394

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0						Grass over Black and Brown mottled silty CLAY (stiff, dry)
2			061994		CL	(fragments of red clay pipe in core sample, bottom 2" of sample in black clay)
4						
6		0			CL	Dark brown CLAY (stiff, damp)
8						
10		0			CL	Tan brown silty clay (medium stiff, moist), with two thin lenses of loose, dry, coarse sand and fine gravel.
12						
14						
16		0			CL	Tan-brown silty CLAY (medium soft, wet), with thin lense of coarse sand (2" thick) at top of core sample.
18						



RUSSELL RESOURCES, INC.

Monitoring Well MW-4A

Project Parkside Commons Apartments Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
18	[Patterned]	0	3	[Hatched]	CL	Encountered water 6/19/91, 1430 hours
20						Greenish Brown silty CLAY (medium stiff, moist), with scattered coarse, angular, sand grains and thin lenses of fine gravel.
22	[Patterned]	0	3	[Dotted]	SC	Greenish brown fine clayey SAND (medium soft, wet) (well sorted fine sand with clay matrix)
24						(evidence of cleaner sand - loose pebble at top of core and uniform loose fine sand on side of core sampler) End of boring, constructed monitoring well.
26	[Blank]	0	4	[Hatched]	CL	Brown CLAY (medium stiff, wet) with dark grey mottling. (grades to dark grey brown CLAY, stiff, damp)
28						
30	[Blank]	0	4	[Hatched]	CL	
32						
34	[Blank]	0	8	[Hatched]	CL	
36						
38	[Blank]	0				
40						



RUSSELL RESOURCES, INC.

Monitoring Well MW-5A

Project Parkside Commons Apartments Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Date Drilled 7/24/91 Total Depth of Hole 25.0 ft. Diameter 8.00 in.

See Site Map
For Boring Location

Surface Elevation _____ Water Level Initial 21.5 ft. 24-hour _____

X-Coord: _____ Screen: Dia 2 in. Length 5 ft. Slot Size .020 in.

NOTES:

Y-Coord: _____ Casing: Dia 2 in. Length 20 ft. Type Sch.40 PVC

Coord. System: feet relative Filter Pack Material Lapis Lustre No. 3

Drilling Company HEW Drilling Co. Inc. Drilling Method Hollow Stem Auger

Driller Tony Weitz Log by Allen B. Storm

Geologist/Engineer Allen B. Storm License No RG 4394

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0						Asphalt over base course.
0-2						Black CLAY (stiff, dry)
2-4					CL	Brown silty CLAY (hard, dry)
4-6						(Thin lense (3") of moist, clayey Gravel)
6-8			11 8 8		CL	Brown silty CLAY (stiff, damp) (Trace pebbles)
8-10					CL	Brown silty CLAY (stiff, damp)
10-12			4 5 9		GP	(Pebbles common, black and red cherty rock fragments) Thin lense (2") of angular gravel, dry.
12-16					CL	Brown silty CLAY with fine sand (medium stiff, damp)
16-18			4 5 6		CL	Brown silty CLAY (stiff, damp) (grades to medium soft, moist at 15.5 ft.) (trace pebbles, less fine sand)



RUSSELL RESOURCES, INC.

Project Parkside Commons Apartments

Owner First Nationwide Bank

Location 900 143 Ave., San Leandro, CA

Monitoring Well MW-5A

Drilling Log

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
18						
20			4 5 7		CL	Brown silty CLAY (soft, wet) (one cobble, 2" dia.)
22					SC	Brown clayey fine SAND (soft, wet) <i>Encountered water 7/22/91, 0930 hours</i>
24					SW	Brown gravelly SAND (saturated, loose), medium to coarse grained sand with common pebbles to 3/8" dia.
						End of boring, constructed monitoring well.
26			11 7 8		CL	Grey brown CLAY (stiff, damp)
28						
30						
32						
34						
36						
38						
40						



RUSSELL RESOURCES, INC.

Project Parkside Commons Apartments

Owner First Nationwide Bank

Monitoring Well MW-6A

Drilling Log

Location 900 143 Ave., San Leandro, CA

Date Drilled 10/6/92 Total Depth of Hole 25.0 ft. Diameter 8.00 in.
 Surface Elevation 40.63 ft. Water Level Initial 18.5 ft. 24-hour 19.26 ft.
 X-Coord: 705.83 ft. Screen: Dia 2 in. Length 10 ft. Slot Size .020 in.
 Y-Coord: 974.99 ft. Casing: Dia 2 in. Length 15 ft. Type Sch.40 PVC
 Coord. System: feet relative Filter Pack Material Lonestar No. 2/12
 Drilling Company West Hazmat Drilling Corp. Drilling Method Hollow Stem Auger
 Driller Scott Northart Log by Allen B. Storm
 Geologist/Engineer Allen B. Storm License No RG 4394

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0						Grass
0 - 4					CL	Dark Brown and Black mottled silty CLAY (stiff, dry) (minor fine to medium sand)
4 - 8		0	6 11 14		CL	Dark Brown silty CLAY (medium stiff, damp) (minor very fine sand)
8 - 14		0	5 10 17		CL	Medium Brown fine sandy CLAY (medium stiff, moist), (increased fine sand content)
14 - 18		0	7 9 22 S1006002		CL	Medium Brown silty CLAY (medium soft, moist)
18					SW	



RUSSELL RESOURCES, INC.

Monitoring Well MW-6A

Project Parkside Commons Apartments

Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
18		0	9 18 21		SH	↓ Encountered water 10/6/92, 1020 hours Medium Brown fine to medium SAND (soft, wet) (minor clay content)
20						Medium Brown fine to medium SAND (soft, saturated)
22						Medium Brown fine to medium clayey SAND (soft, saturated)
24						Medium Brown CLAY (medium soft, moist)
26						End of boring, constructed monitoring well.
28						
30						
32						
34						
36						
38						
40						



RUSSELL RESOURCES, INC.

Monitoring Well MW-7A

Project Parkside Commons Apartments Owner First Nationwide Bank

Drilling Log

Location 900 143 Ave., San Leandro, CA

See Site Map
For Boring Location

Date Drilled 10/6/92 Total Depth of Hole 25.0 ft Diameter 8.00 in.

Surface Elevation 38.15 ft Water Level Initial 17 ft 24-hour 17.01 ft

X-Coord: 398.62 ft. Screen: Dia 2 in. Length 10 ft. Slot Size .020 in.

Y-Coord: 1098.22 ft. Casing: Dia 2 in. Length 15 ft. Type Sch.40 PVC

Coord. System: feet relative Filter Pack Material Lonestar No. 2/12

Drilling Company West Hazmat Drilling Corp. Drilling Method Hollow Stem Auger

Driller Scott Northart Log by Allen B. Storm

Geologist/Engineer Allen B. Storm License No RG 4394

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0						3" Asphalt over Base Course
0 - 7						Black silty CLAY (stiff, dry)
7 - 9		0	7			Black silty CLAY (stiff, dry) (olive green mottling and occasional pebbles)
9 - 10			9			
10 - 11			5			(fragments of Brick and Plant Stems)
11 - 13		0	11			(lower one foot of sample fell out)
13 - 14			13			
14 - 15			10			Medium Brown sandy, silty GRAVEL (medium dense, damp) (pebbles up to 3 cm. - common angular chert grains)
15 - 16		0	12			
16 - 18			15			
18			SI006003		GM	
						↓ Encountered water 10/6/92, 1515 hours



RUSSELL RESOURCES, INC.

Project Parkside Commons Apartments

Owner First Nationwide Bank

Location 900 143 Ave, San Leandro, CA

Monitoring Well MW-7A

Drilling Log

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)
18		0	5 11 23		G	Medium Brown sandy, silty GRAVEL (loose, saturated) (angular grains and pebbles up to 2 cm.)
20						0
22						
24						
26						End of boring, constructed monitoring well.
28						
30						
32						
34						
36						
38						
40						



RUSSELL RESOURCES, INC.

Project: Parkside Commons Apartments

Owner: First Nationwide Bank

Location: 900 143 Ave., San Leandro, CA

Monitoring Well MW-8A

Drilling Log

Depth (feet)	Well Completion	PID (ppm)	Sample ID Blow Count Per 6"	Graphic Log	Soil Class	Description (Color, Texture, Structure)		
18	0	0			CL	Light Brown CLAY (soft, saturated), interbedded with		
19						8	SW	Fine to Medium grained Brown SAND (medium dense, saturated)
20						7	CL	Light Brown CLAY (soft, sat.)
21						9	SW	Fine to Medium Brown Sand (medium dense, saturated) clayey, with occasional pebbles to 1/4".
22							SW	
23							SW	
24							SW	
25						5	CL	Fine to Coarse Brown Sand (medium dense, saturated)
25.5						5	CL	Medium Brown CLAY (soft, saturated)
26						5	CL	Clay becomes medium stiff, damp.
26			End of boring, constructed monitoring well.					
28								
30								
32								
34								
36								
38								
40								



April 13, 1992

Daniel W. Hernandez, MPH, CIH
First Nationwide Bank
33 New Montgomery Street, 7th Floor
San Francisco, CA 94105

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

**RE: HEALTH RISK ASSESSMENT REPORT (HRAR) FOR PARKSIDE COMMONS
APARTMENTS, 900 143rd AVENUE, SAN LEANDRO, CALIFORNIA**

Dear Mr. Hernandez:

This office has reviewed the HRAR you submitted on March 11, 1992. In this report you have evaluated the probability and the magnitude of adverse health effects to humans from potential exposure to pesticide residues found in soils at this site. Parkside Commons is a fully developed 13 acre site with 300 residential apartment units. Prior to the construction of this complex in 1986, this site was occupied by a wholesale plant nursery.

No surface pesticide contamination was found on this property. Most of the pesticide residues were found at the native soil horizon, at a depth between 1.5 and 2.5 feet. Most of the soil on this property is covered by asphalt parking lots, concrete sidewalks and buildings. Due to the chemical properties of the pesticide residues, the chances for these pesticides to eventually leach in to the shallow ground water are remote.

This office is very impressed with the accuracy and technical finesse of the HRAR. We concur with the findings of your HRAR that the chances for pesticide exposure are negligible at this site. Unless future construction activities disturb the native soil, this site does not pose a significant health threat to residents.

However, please be aware that this letter is limited only to the health risks associated with pesticide residues found in the soils. Further action may be required if information received subsequent to this letter indicates a need for it. If you have any questions concerning this matter, please feel free to call me at (510) 271-4320.

Sincerely,

Ravi Arulanantham, Ph.D., CHMM
Senior Hazardous Materials Specialist

c: Robert Weston, ACHCS
Lester Feldman, SFBR-RWQCB
files